

<210> 391
 <211> 699
 <212> DNA
 <213> Homo sapiens

<400> 391
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 caggtaggcg cctgtgggac tgggtgcctc tggcgtgcag aagcttctct cttggtgtgc 240
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 aacgttgtat ccgaaagagg aaaatggttg gaagtagaat gtctgctgat gacctgcaca 480
 accttaataa acgcatccgc tatctctaca aacactttaa ccgacatggg aagtttcgat 540
 agaagagaaa gctgagaact tcggaaaagg ctcatctgtc accctggaga agggaaactg 600
 tacttttccc tgtgaggaaa cggctttgta ttttctctgt aataaaatgg ggcttctttg 660
 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagtcgacc 699

<210> 392
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 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (24)
 <223> n equals a,t,g, or c

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 <222> (25)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (54)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c

<400> 392
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catgtgcctc tgcggggcag ggccttcctg gttttgtaca ctgctgtacc cagatgccta 1440
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<210> 393

<211> 749

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (748)

<223> n equals a,t,g, or c

<400> 393

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tgaaccggyg caggtcggaa acggagcagt tttccttgag cgagattca ggtttttcag 180
gtgggtcttg tgagctgggg tctttacaac ccctgccttg gctctgctga caaaaactcc 240
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ccatggccac tgagccctct gctgccctgc cagaatctgc cgccctoca tcttctacct 420
ctgaatggcc acccttagac cctgtgatcc atcctctctc ctactgtgag aaatccgggt 480
ctctaggatn ccagaggcag cgacacaaag ctgggaaatc ctacgggctc ctaccagcag 540
gactgcctcg ctgccccacc tcccgctcct tggcctgtcc ccagattcct tccctggttg 600
acttgactca tgcttgtttc actttcacat ggaatttccc agttatgaaa ttaataaaaa 660
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aaaaaaaaaa aaaaaaaaaa aaaaaaana 749
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<210> 394
 <211> 611
 <212> DNA
 <213> Homo sapiens

<400> 394
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 agccggaaga gcgtttccca aagtgtattc tgcggaacta gcacctactg tgttctcaac 180
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 cgctggaaca ctaatgagag atcatgatgc agccgtcctt ttggatttct ttttaataat 360
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 aatttaattt cattttttta ttttggtgta caagctgtaa catttcatct ttcaaagtgt 480
 aacacgctga tttcctcaaa tagagatacc cctttgagt ataaatttgc aaaatgctgt 540
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 tccttttaaa a 611

<210> 395
 <211> 1856
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1851)
 <223> n equals a,t,g, or c

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 gagccccggc cggccaggcc ctgccgctca tgggtgccag ccagagaggg gccagcccg 180
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 aacttgagcc cagtcattgt cttcaaatgc cttcccccag agcctgccag cctggaggag 720
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 caatactgtt gcccttttcc ttgactatta cactgcctgg aggatagcag agaagcctgt 1260

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gtagcttctg aaaggtgctt tctccattta tttaaaacta cccatgcaat taaaaggtag 1800
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<210> 396

<211> 2651

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2642)

<223> n equals a,t,g, or c

<400> 396

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gagccgaaga tggcagtgaa cgtatactca acgtcagtgga ccagtgataa cctaagtcga 180
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<210> 397

<211> 2507

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2489)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2504)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2505)

<223> n equals a,t,g, or c

<400> 397

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<210> 398

<211> 1273

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (1227)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1229)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1252)
 <223> n equals a,t,g, or c

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 cgcaaggga ttc 1273

<210> 399
 <211> 3774
 <212> DNA
 <213> Homo sapiens

<400> 399
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gtttggataa atacctcggg cattatatttg gttggtctcc gagactacca ggataacaaa 480
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gacattggcg agatgtgggt cccgttgccg ccggcaggac tgttctgcac tagggacacc 3720
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<210> 400

<211> 1522

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1487)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<400> 400

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caactggaat gagattgttg ataactttga tgatatgaat ttaaaggagt ctctccttcg 180
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cacatattgt tggttggtaca cccgggagag tgtttgatat gttaaacaga agataccttt 420
ctccaaaatg gatcaaaatg tttgttttgg atgaagcaga tgaaatgttg agccgtggnt 480
tttaaggatc maatctatga gattttccaa aaactaaaca caagtattca ggttgtgttg 540

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ctttctgcca caatgccaac tgatgtgttg gaagtgacca aaaaattcat gagagatcca 600
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attacacagg ctgttatatt tctcaatacg aggcgcaagg tggactggct gactgagaag 780
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<210> 401

<211> 1370

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1223)

<223> n equals a,t,g, or c

<400> 401

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ccccctcttc acagagctgc tcaatggcat ccgcgccatg gaggaccag gtgtcaggga 180
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1370

<210> 402

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1406)

<223> n equals a,t,g, or c

<400> 402

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<210> 403

<211> 1750

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<400> 403

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aacttttttc tacaatgtat ttgtttgcga gtaggacttg ggagtcattg ggaaaaaaa 1680

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339

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<210> 404

<211> 1339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1330)

<223> n equals a,t,g, or c

<400> 404

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<210> 405

<211> 482

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<400> 405

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cacctaccca caaactagtg gatgataaat tttggctatt cagaagacgt ttattatagg 180
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ctgctctaca ccagtgaata atttacactc taataggggg tggttaactat aaagatgata 420
aacatagcat cttaattggn gtgtgtatga aggtggttgt tacctcttnc tagccaccca 480
gg                                                                 482

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<210> 406

<211> 1413

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 406

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tattcccttt gttaatgtta tagaaggggg gatacaaaaa ggaactaaca atttgtatgg 1020

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<210> 407

<211> 1693

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1548)

<223> n equals a,t,g, or c

<400> 407

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<210> 408

<211> 1342

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1332)
<223> n equals a,t,g, or c

<400> 408
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aaaaaaaaaa anaaaaaaaaac ca 1342

<210> 409
<211> 2417
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (680)

<223> n equals a,t,g, or c

<400> 409

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<210> 410

<211> 1401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1394)

<223> n equals a,t,g, or c

<400> 410

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tgatcccaaa atgcaaactg acaaaccctt tgaccagacc acaattagtc tgcagatggg 180
cactaataaa ggagccagcc aggcagggat gttagcacca ggtaccagaa gagacatcta 240
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tccc aaatac tgtgtctgtc ctacagaacc tgtcattcac aacggaagcc aaggaacagg 420
aaca aatggt tcggaaatca gtgatagtga ttaccaggca gaataccctg atgagtatca 480
tggc gagtac caggatgact ccccagaga ttaccaatat agcgaccaag gcattgatta 540
ttag atccac acagaaggag ctcagtattt agtcctttgt ttttattcag tgagaaccaa 600
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catt tctcag cataaactta tcccattgta ttttttataa ataaatattt tttttgaact 1320
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aaaa aaaaaa gggnggccgt t                                     1401
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<210> 411

<211> 3016

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 411

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aagtattgaa caaaagacgg aaggtgctga gaaaaaacag cagatggctc gagaatacag 480
agagaaaaat gagacggagc taagagatat ctgcaatgat gtactgtctc ttttgaaaaa 540
gttcttgatc cccaatgctt cacaagcaga gagcaaagtc ttctatttga aaatgaaagg 600
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<210> 412

<211> 958

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (930)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (934)
 <223> n equals a,t,g, or c

<400> 412
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 aaccaggaaa aactcgccaa actgcaggca caagtgcgca ttggtgggaa aggaactgct 180
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 gctaattaag ccgaagaagc ctgggaatca agtttgaaac aaagattaat aaagttcttt 840
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggnggccgt tttaaaggaa ccaggttt 958

<210> 413
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 413
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 atcagagtgc cttttttttt tttgttcaaa tgattttaat tattggaatg cacaattttt 420
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 gcggccgctc gaattaagcc 500

<210> 414
 <211> 3397
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (24)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (3081)
 <223> n equals a,t,g, or c

<400> 414
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<210> 415

<211> 2880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<400> 415

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<210> 416

<211> 1616

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1610)

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<220>

<221> misc feature

<222> (1611)

<223> n equals a,t,g, or c

350

<220>

<221> misc feature

<222> (1616)

<223> n equals a,t,g, or c

<400> 416

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<210> 417

<211> 1815

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1184)

<223> n equals a,t,g, or c

<400> 417

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<210> 418

<211> 1966

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 418

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<210> 419

<211> 2852

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2838)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2843)

<223> n equals a,t,g, or c

<400> 419

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<210> 420

<211> 2705

<212> DNA

<213> Homo sapiens

<400> 420

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<210> 421

<211> 1901

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1828)

<223> n equals a,t,g, or c

<400> 421

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cycsaggggg ggcccggtcc caattcgccc tatagtgagt c 1901

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<210> 422

<211> 2477

<212> DNA

<213> Homo sapiens

<400> 422

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<210> 423

<211> 777

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (764)

<223> n equals a,t,g, or c

<400> 423

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caactatggc agcagcgtgg cctccgccac cgtgcacatc cgaatggcct ttctgagaaa 180

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<210> 424

<211> 1649

<212> DNA

<213> Homo sapiens

<400> 424

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<210> 425

<211> 1608

<212> DNA

<213> Homo sapiens

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 <222> (1598)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1600)
 <223> n equals a,t,g, or c

<400> 425
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<210> 426
 <211> 1794
 <212> DNA
 <213> Homo sapiens

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 <222> (1789)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

<222> (1790)
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<220>
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<223> n equals a,t,g, or c

<400> 426
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<213> Homo sapiens

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<220>

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<220>
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 <222> (618)
 <223> n equals a,t,g, or c

<400> 427
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 atattgatag tatattctat attatttcat agatctgtct gaaagagatt gggaacaaaa 240
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<222> (484)

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<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 428

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ccatgaaggg ggtcagtcct acaagattgg tgacacctgg aggagaccac atgagactgg 240
tggttacatg ttagagtgtg tgtgtcttgg taatggaaaa ggagaatgga cctgcaagcc 300
catagctgag aagtgttttg atcatgctgc tgggacttcc tatgtggtcg gagaaacgtg 360
ggagaagccc taccaaggct ggatgatggt agattgtact tgcctgggag aargcagcgg 420
acgcacact tgcacttcta gaaatagatg caacgwtcag gacacaagga catctataga 480
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<210> 429

<211> 1470

<212> DNA

<213> Homo sapiens

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<222> (1347)

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<221> misc feature

<222> (1357)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1415)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1454)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1462)

<223> n equals a,t,g, or c

<400> 429

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<210> 430

<211> 434

<212> DNA

<213> Homo sapiens

<400> 430

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gaatccccag cccggaagct ctcccagtc ttcgcccttc ctgttacggg aggcactgtt 180
gtcaccacca aacagagcct actgacagcc atccacatgg tgctgacaga gcatgaccct 240
tttaagcgca tctcagactc agaattgaag gccttggtgt gcatggcact gaatgagcca 300
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<210> 431

<211> 1823
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 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<400> 431
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<210> 432
<211> 3391
<212> DNA
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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aagggaacaaa acctatagag gatccagcaa acgatacagt ggatttcctt aaaagaacga 540

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<212> DNA
<213> Homo sapiens

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<220>
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<222> (2516)
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aagcatttgt ttctactttg atatgactgt ttttcggaca gtttatttgt tgagagtgtg 2400
accaaagtt acatgtttgc acctttctag ttgaaaataa agtgtatatt ttttctataa 2460
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tacctgccag gcgtacttgt catcagtgtt cac 2553

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<210> 434

<211> 2532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2470)

<223> n equals a,t,g, or c

<400> 434

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gccgctctgc tgctgctgct gccgccccgg ctcttagccc gaccctcgct cctgctccgc 180
cggccccca gcgcggcctc ctgcgccccg atctccttgc ccgcgcgcgc ctcccgagc 240
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```

```

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```

<210> 435

<211> 1822

<212> DNA

<213> Homo sapiens

<400> 435

```

ggctggcggc ggggtccggt ccgctgcctg gcgctgcggg cggcgggcca tgggtggttg 60
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ggctacgggg ctcgggtttg ctgactgggg agtcggcagg cggcaggaac catgcgaggc 180
cagcggagcc tgctgctggg cccggcccgc ctctgcctcc gcctccttct gctgctgggt 240
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gtggctcctg tgatcgtgct gacaggctcc attgtagcta tcgcctacct gtgtgtcctg 480
cctctcatcc tccgaaccta ctacgtgccg cgactctgct ggcattttct ctatagccac 540
tggaatctga tcctgattgt cttccactac taccaggcca tcaccaactcc gcctgggtac 600
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aagccagccc gaaacacacca ctgcagcatc tgcaacaggt gtgtgctgaa gatggatcac 720
cactgcccct ggctaaacaa ttgtgtgggc cactataacc atcggtactt cttctctttc 780
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gccaccacct cttctacttg ctgtctgaaa aaacacctga ctagtacagc tgagatcttg 1680
gcttctcaac agggcaaaga taccaggcct gctgctgagg tcaactgccac ttctcacatg 1740
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tttggggggg ggggccccgt ta 1822

```

<210> 436

<211> 1030

<212> DNA

<213> Homo sapiens

<400> 436

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gagaagctgc tgacccgggt cccacagtgc aataaggccc agatgaccaa cattcttcag 120
cagatcaaga cagcacgtac caccatggca ggcctgacca tggaggaact tatccagttg 180
gttgctgcac gactggcaga acatgagcgg gtggcagcaa gtactcagcc acttgggtcg 240
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gccaagtgtt catatcctgg aaggtcttca catgctccag ccacctgtaa gctatgtcta 360
atgtgccaga aactcgtcca gccagtgag ctgcatccaa tggcgtgtac ccatgtattg 420
cacaaggagt gtatcaaatt ctgggcccag accaacacaa atgacacttg tcccttttgt 480
ccaactctta aatgacggac ctgactgggg aggaagaaga agagaaactg atgtgaacag 540
gaagcgcggg ttcaagattt ctaaaactct atatttatac agtgacatat actcatgcca 600
tgtacatttt tattatatag gtaatgtgtg tatagaaagt ctgtattcca atgttcgtaa 660
atgaaactat gtatattatg cagaaacagt ctgttcccc tcattcttgca attcctttgg 720
gggatgcaga ttgtagggaa gatgatgttt agtttggcct tgaaattatg atatccctgc 780
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cattctgctt tggtttggct cagcctctag tccatttcct taaggctcat gtatgcagat 900
ttaaagcctg gtgctcacc actgtccaac cagatgcctt gcttaccgaa agcctccaga 960
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aaaaaaaaagt                                     1030
```

<210> 437

<211> 1632

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1616)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1628)

<223> n equals a,t,g, or c

<400> 437

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gccccttccg tggacggctc tgtggcctct gtgggaactt caatggcaac tggagtgcag 180
actttgtcct gcccaatggc tcagcagcgt ccagtgtgga gaccttcggg gctgcatggc 240
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gcttggcaga ggagactgca ccctatgaga gcaacgaggc ctgcgggcag ctccggaacc 360
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gagcgcagga cttctcccca tgttatggct gatcagtcac ccaccaggaa cgaagatttc 1440
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accctgctct accgcttttc tgggtcacag aggccaaatg tgagagcatt gaataaatat 1560
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attcccgnnt cc 1632
```

<210> 438

<211> 1016

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (993)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (994)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (995)

<223> n equals a,t,g, or c

<400> 438

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actcgtgccg aattcggcac gagcggncac gagcaagccc catctcatcc tggcacgccc 60
tactccactg ccctggcagc agcagggtgtg gccaatggag gggggtgctg gccccagga 120
ttccccagc caaactgtct ttgtcaccac gtggggctca cttttcatcc ttccccaaact 180
tccctagtcc ccgtactagg ttggacagcc cccttcggct acaggaaggc aggaggggtg 240
agtcccctac tccctcttca ctgtggccac agcccccttg ccctccgcct gggatctgag 300
tacatatgtt ggtgatggag atgcagtcac ttattgtcca ggtgaggccc aagagccctg 360
tggccgccac ctgaggtggg ctggggctgc tcccctaacc ctactttgct tccgccactc 420
agccatttcc ccctcctcag atggggcacc aataacaagg agctcaccct gcccgctccc 480
aacccccctc ctgctcctcc ctgcccccca aggttctggt tccatttttc ctctgttcac 540
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gactacccca gtcccaggga aggtggggcc ctgcccctag gatgctgcag cagagtgagc 780
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ggaggggtag ccatgatattg tcccagcctg gggctccctc tctggtttcc tatttgcagt 900
tacttgaata aaaaaaatat ccttttctgg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aannnggggg gggccccccc ccccca 1016
```

<210> 439

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (531)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (539)
<223> n equals a,t,g, or c

<400> 439

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atcctgctag acgcgccgcg caccgacgga ggggacatgg gcagagcaat ggtggccagg 120
ctcgggctgg ggctgctgct gctggcactg ctccatacca cgcagattta ttccagtga 180
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ttcgtgggtc cactctctct tctgcatctc tactcttaag agactcaggc caagaaacgt 360
cttctaattt tccccatctt ctaaacccaa tccaaatggc gtctggaagt ccaatgtggc 420
aaggaaaaac aggtcttcat cgaatctact aattccacac cttttaaaaa ttttnggga 480
acccaaccca aagggtaaaa aaaaaaaaaa atttggggnt tttttgggn naaaggggna 540
aaaaaaattt ttcccccccc ccccaaaaaa aaaaaaaaat tttttttttt tttt 594
```

<210> 440
<211> 1580
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (873)
<223> n equals a,t,g, or c

<400> 440

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ctgctgctgc tctgcaaaat tcagctgctg cctctgtctt gaggacccca gcgcctttcc 120
cccggggcca tgctgcctgc agccacagcc tccctcctgg ggccctcct cactgcctgc 180
gccctgctgc cttttgcccc gggccagacc cccaactaca ccagaccgt gttcctgtgc 240
ggaggggatg tgaaggggga atcaggttac gtggcaagtg aggggttccc caacctctac 300
ccccctaata aggagtgcac ctggaccata acggtccccg agggccagac tgtgtccctc 360
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ttegctgggt ctgggacttc cggccagcgg ctcggacgct tttgtgggac cttccggcct 480
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ggaggacgag gcttctctgct ctggtacagc gggcgggcca cctcgggcac tgagcaccac 600
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gatctcagtg tcaccgtga tggcttctca gcctcctaca agaccctgcc gcggggcact 960
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```

```

ccctctcaac ctgtgcgggc tgetgcgtcc caggactgag acgcaggcca gccccggccc 1500
ctagccctca ggccttcttt cttatccaaa taaatgtttc ttaatgagga atgggtcaga 1560
tctccatgct tatggtaaaa                                     1580

```

<210> 441

<211> 1082

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1074)

<223> n equals a,t,g, or c

<400> 441

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caaccgccgc cccaatcaca accccagcct cagccccaac ccaagcctca gcccagcag 1020
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aa

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<210> 442

<211> 1241

<212> DNA

<213> Homo sapiens

<400> 442

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agacgagcgt ggcgggccgcg gctgctcggg gccgcgctgg ttgccattg acagcggcgt 60
ctgcagctcg cttcaagatg gccgcttgct cgcattcatt ttctgctgaa cgacttttaa 120
ctttcattgt cttttccgcc cgcttcgacg gcctcgsgcc ggctgctctt tccgggattt 180
tttatcaagc agaaatgcat cgaacaacga gaatcaagat cactgagcta aatccccacc 240
tgatgtgtgt gctttgtgga ggggtacttca ttgatgccac aaccataata gaatgtctac 300
attccttctg taaaacgtgt attgttcgtt acctggagac cagcaagtat tgtcctatatt 360
gtgatgtcca agttcacaag accagaccac tactgaatat aaggtcagat aaaactctcc 420
aagatattgt atacaaatta gttccagggc ttttcaaaaa tgaaatgaag agaagaaggg 480
atttttatgc agctcatcct tctgctgatg ctgccaatgg ctctaataaa gatagaggag 540
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<210> 443

<211> 968

<212> DNA

<213> Homo sapiens

<400> 443

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agtattttca gagaaaattg aagggttttt taaacatcac tggattttctt gattgaggaa 180
acaagttctg aaataatagc acaatttcaa agaagagact ctttgcaaag ttgataacat 240
ttcaaaccct gaaggacagt gacttattat gtwagttcaa tkttgtaagt ycattatgtw 300
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acatttttat ttgaattttt gctgaactga taaagggtgt tataatttttg tttgttkgtt 540
tgttttaattc atgtttgttg ggactgaggt ttaggaaagt tggtactggt taaaaacctc 600
aaatgaaatg cgaaagaatt tgaatttttc ctgcataatg caactttgga cagctttcaa 660
gaaaaatgag aaaagtttca acttctggcg gttaaaaatat taatgcagaa tttactaaga 720
ttttattcat ttgcattagc aaatatcat gcagcagcag ttgactgaaa atttattctt 780
atgagacgta tagtattcat ttttaaatgc atgattgtac attatgtata gacgacaatg 840
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aaaaaaaaa 968
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<210> 444
 <211> 1360
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (114)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (302)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (330)
 <223> n equals a,t,g, or c

<400> 444
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 cggaagaga ccgtgaccgc caccgccact tcccaggtag cccagcagcc tccagccgct 180
 gccgcccctg gggaacaggc cgtcgcgggc cctgcccctc gactgtcccc agcagtacca 240
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 caggatgata tcgaagagct ggagaccaag gccgtgggaa tgtctaacga tggccgcttt 420
 ctcaagtttg acatcgaaat cggcagaggc tcctttaaga cggctctacaa aggtctggac 480
 actgaaacca ccgtggaagt cgcctggtgt gaactgcagg atcgaaaatt aacaaagtct 540
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 gaatccgttg acgtttatgc ttttgggatg tgcagtcttg agatggctac atctgaatat 1020
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 gaggaacag gagtacgggt agaattagca gaagaagatg atggagaaaa aatagccata 1260
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 aaaaaaaaaa aaaaaaaaaa aaaaaacacc caccgtgccg 1360

<210> 445
 <211> 1835
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature
 <222> (326)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1229)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1738)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1747)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1758)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1801)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1806)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1831)
 <223> n equals a,t,g, or c

<400> 445
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 agctctttcc caggtgttga ctccagctcc agcttcagct ccagctccag gtcgggctcc 180
 agctccagcc gcagcttagg cagcggaggt tctgtgtccc agttgttttc caatttcacc 240
 ggctccgtgg atgaccgtgg gacctgccag tgctctgttt cctgcccaga caccamcttt 300
 cccgtggaca gagtgaacg yttggnaatt cacagctcat gttctttctc agaagtttga 360
 gaaagaactt tccaaagtga gggaaatatgt ccaattaatt agtgtgtatg aaaagaaact 420
 gttaaacctt actgtccgaa ttgacatcat ggagaaggat accatttctt acactgaact 480
 ggacttcgag ctgatcaagg tagaagtga ggagatggaa aaactgggtca tacagctgaa 540
 ggagmstttt ggtggaagct cagaaattgt tgaccagctg gaggtggaga taagaaatat 600
 gactctcttg gtagagaagc ttgagacact agacaaaaac aatgtccttg ccattcgccg 660

```

agaaatcgtg gctctgaaga ccaagctgaa agagtgtgag gcctctaaag atcaaaacac 720
ccctgtcgtc caccctcctc ccactccagg gagctgtggt catggtggtg tggtgwacat 780
cagcaaaccg tctgtggttc agctcaactg gagagggttt tcttatctat atggtgcttg 840
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tacagatggg agactggttg agtattatag actgtacaac aactggatg atttgctatt 960
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```

<210> 446

<211> 1355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<400> 446

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agcggagttg gtgggcgcta tgctatcacc cgaggcagag cgagtgtctg ggtaccttgt 120
agaagtggag gagctcgccg aggaggtgct ggcggacaag cggcagattg tggacctgga 180
cactaaaagg aatcagaatc gagaggccct gagggccctg cagaaggatc tcagcctctc 240
tgaagatgtg atggtttgct tcgggaacat gtttatcaag atgcctcacc ctgagacaaa 300
ggaaatgatt gaaaaagatc aagatcatct ggataaagaa atagaaaaac tgcggaagca 360
acttaaagtg aaggtcaacc gccttttttg ggcceaaggc aaaccggagc tgaagggttt 420
taacttgaac cccctcaacc aggatgagct taaagctctc aaggtcatct tgaaaggatg 480
agactcaaga accaagatgg gggaccagca acccccagag gtcattggag acccaggacc 540
ctccaacctt gacacctgta aggacaggat ctgcctgtta agggccagcc gtcagggaatc 600
tggccatgaa aacctctttg tagtgcttgg ctactctgtg atggcaggag ggaaccttca 660
gcctgtctgg ctgctggacc tggacaccag ggctcgggtg acacaagatc tattgacggg 720
ccttggtagc caccatggg tgtgtggggc agtggtctgt ggggtgtaag aatgactgca 780
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ccagctccaa ttttgcactt tttccctgct tgattccaag agtaggtgct gcctagcagc 1080
ccttcgtggc cactctttac tcaggagggc cttgcagagt cctgcaccag gcctgggtga 1140

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378

```

gtggatgccc ctcttaccat atgacacgtg tcaagatgcc cttccgcccc ctctgaaagt 1200
ggggccccggc cagcactgct cgttactgtc tgccttcagt ggtctgaggt cccagtatga 1260
actgccgtga agtcaaaaact cttatgtgtt cattaagggc tcaataaatg ttagctgaat 1320
gaawaaaaaaa aaaaaaaaaa amawaaaaaaa aaaaaa 1355

```

<210> 447

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<400> 447

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tgcctctgtg tgtgtgcaag acagagagat aggcattttg tcaagtcagc tagttgccta 60
gggtatctttg tctcacatct ggctgtttcc tcctagagaa ccatccagtt ggctttccag 120
gtctggaggt gagctaattg atgagtgaat atnagcagtg ggtgttcctc atctctttga 180
ggattttgcct cagagttcac taccaaggga tttctggaac taggwgccat tctttacatc 240
agttcttgag ggttctttga tatcaggggc aaaatgatcc cttctctttt ctttcttata 300
tcctgtgctt tgnctcctgg gtgatttctc ttcaagtcag ttgtgggagg tgcctaggaa 360
caacgctaac acggg 375

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<210> 448

<211> 1393

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1383)

<223> n equals a,t,g, or c

<400> 448

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tcttttacat gtttaaattt aaaccattct tcgtgacccc ttttcttggg agattcatgg 60
caagaacgag aagaatgatg gtgcttggtt ggggatgtcc tgtctctctg aactttgggg 120
tcctatgcat taaataattt tcctgacgag ctcaagtgtc ccctctgggc tacaatccct 180
ggcggctggc cttcatccct tgggcaagca ttgcatacag ctcatggccc tccctctacc 240
ataccctcca cccccgttcg cctaagctcc cttctccggg aatttcatca tttcctagaa 300
cagccagaac atttgtgggc tatttctctg ttagtgttta accaaccatc tgttctaaaa 360

```



```

gaagggctga actgatggaa ggaatgctgt tagcctgaga ctcaggaaga caacttctgc 420
agggtcactc cctggcttct ggaggaaaga gaaggagggc agtgctccag tggtagacaa 480
gtgagacata atggaatcag gcttcacctc caaggacacc tatctaagcc attttaaccc 540
tcgggattac ctagaaaaat attacaagtt tggttctagg cactctgcag aaagccagat 600
tcttaagcac cttctgaaaa atcttttcaa gatattctgc ctagacgggtg tgaagggaga 660
cctgctgatt gacatcggct ctggccccac tatctatcag ctccctctctg cttgtgaatc 720
ctttaaggag atcgtcgtca ctgactactc agaccagaac ctgcaggagc tggagaagtg 780
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ggtgctgaag tgtgatgtga ctcagagcca gccactgggg gccgtccctc tcccccggc 960
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tgcgctcaag agcagctact acatgattgg tgagcagaag ttctccagcc tccccctggg 1140
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gatctcgcaa agttattctt ccaccatggc caacaacgaa ggacttttct ccctgggtggc 1260
gaggaagctg agcagacccc tgtgatgcct gtgacctcaa ttaaagcaat tcctttgacc 1320
tgtcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aanaaaaaaa aaa 1393

```

<210> 449

<211> 1663

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 449

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aaagaacggg ggtgatgtgg ttccacaata ttacaaggac cccaaaaagc tctgcnaga 60
ggacttgag aagttggtga ccagggtaaa agtaggcagc gagccagcaa aagactgttt 120
gccagcaaa ccctcagagg ccacctcaga ccggtcagag ggcagcagcc gggacgcagn 180
ggtagcgacg agaacgagga gtcgagcggt gtggattacg tggaggtgac ggtcggggag 240
gaggatgcga tctcagatag atcagatagc tggagtcagg ctgcggcaga aggtgtgtcg 300
gaactggctg aatcagactc cgactgcgtc cctgcagagg ctggccaggc ctagacaggg 360
aagtctgtta gaactgctgt gctgatcaac gggacgctcc gtctttgaag aaagaagaga 420
tggtctctcc ccagccatgg gccacccttg ccagtrctc caagtggaac tacttagctc 480
gcgtgtgcct ggaargtgcg ggaagtccag cgactctcag acgcacctcc cagaggaccg 540
gtgggaattg ttcatagtgc caaagtccta mtactgcgtt ttcaatgggt ccttgtacat 600
agtttgctcc tctgscctag noctcacctc ttgctatact ggraccgatt tgtacaatgt 660

```

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gggaattttg ttaccytttt aatcaagggc aacttccttt tccagcacta ccattgtaag 720
gttktttttca ggagggaggg staaccacct tgcttttctc ttttctcttt ttcttttttt 780
tattttttgtt ttattaattt ggggaaaggg gtgttagcat tagtgccatg atatctactg 840
gatttttaagt agggagactt tattttttaa ggtagggtga aatttgggag atttctcggc 900
aggaagggtc gaaatccagg cccctgtctc aacttgga gaagtgcag acggcagatc 960
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ttagctcaaa gcctcaccat gaattgattt tttttgtttg tgtgtgtgtt tgttttggga 1380
caatttttaga tacctgagtg cactttttca gttagtccta acttttataa gaaggaaaac 1440
caagagacat atctggtgta cgtgttgca tatgaactct ggttgcaatc cctccccctc 1500
ccacactgcc ccccatgtga gtacrcgcga caagtcaa gctaggaagt ttgaataaaa 1560
ccaatttttc taacttggtg ctcatgtgtt gtaactcaat aaagcaaaga ctaaacattt 1620
ttataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1663

```

<210> 450

<211> 1380

<212> DNA

<213> Homo sapiens

<400> 450

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gggtcgaccc acgcgtccgg caccatgcgc gcagcagcca tctccactcc aaagttagac 60
aaaatgccag gaatgttctt ctctgctaac ccaaaggaat tgaaaggaac cactcattca 120
cttctagacg acaaaatgca aaaaaggagg ccaaagactt ttggaatgga tatgaaagca 180
taoctgagat ctatgatccc acatctggaa tctggaatga aatcttccaa gtccaaggat 240
gtactttctg ctgctgaagt aatgcaatgg tctcaatctc tggaaaaact tcttgccaac 300
caaactggtc aaaatgtctt tggaagtttc ctaaagtctg aattcagtga ggagaatatt 360
gagttctggc tggcttggtg agactataag aaaacagagt ctgatctttt gccctgtaaa 420
gcagaagaga tatataaagc atttgtgcat tcagatgctg ctaaacaaat caatattgac 480
ttccgcactc gagaatctac agccaagaag attaaagcac caacccccac gtgttttgat 540
gaagcacaaa aagtcataata tactcttatg gaaaaggact cttatcccag gttcctcaaa 600
tcagatatatt acttaaatct tctaaatgac ctgcaggcta atagcctaaa gtgactggtc 660
cctggctgaa gggaattaac agatagtatc aagcgcagaa ggaatgtgcc agtatggctc 720
cctgggtgaa cagcttggcc ttttttgggt gtcttgacag gccagaaga acaaatgact 780
cagaatggat taacatgaaa gttatccagg cgcagagttg aagaagcata agcaagacaa 840
aaacagagag accgcagaag gaggaagata ctgtggtact gtcataaaaa acagtggagc 900
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tatgtctacat attattatat agtttgact gagctattga agtcccatta acttaaagta 1080
tatgttttca aattgccatt gctactattg cttgtcgggtg ttattttatt ttattgtttt 1140
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tcagaatata tttgtaagtt aaatcattgg tgctaataat aaatgtggat tttgtattaa 1260
aatatataga agcaatttct gtttacatgt ccttgctact tttaaaaact tgcattttatt 1320
cctcagattt taaaaataaa taaataattc atttaaaaaa aaaaaaaaaa aaaactcgag 1380

```

<210> 451

<211> 926

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (687)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (865)

<223> n equals a,t,g, or c

<400> 451

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gttgcatctt cttgctgtcc tagaaaaaat gatttcacag ggtaacaata acaaaaatgg 60
aaagaatgag actggtaata acaacaacaa agatggatct aatcataaag ctgaaagtgg 120
agctctaata gaagctgcaa aatcaaagat acatcagtac aaagtacgag cttatatcca 180
aatgaagtct ctgaaagcat gtaaaaggga aatcaagtca gtcatgaata cagctggaaa 240
ttccgcaccc tctctctttc ttaaaagcaa ttttgagtac ttaagaggta attatcgaaa 300
agccgtgaag ctattaaata gttcaaacat tgctgagcat ccaggattca tgaaaacagg 360
tgaatgcttg agatgcatgt tctggaataa ccttggttg atccattttg ccatgagcaa 420
gcacaatttg ggaatattct actttaaaaa ggctctgcaa gagaatgaca atgtctgtgc 480
acagctcagt gcaggtagca ctgatccagg taaaaaattt tcaggaagac ccatgtgtac 540
gttactaacc aataagagat atgagttgct gtataactgt ggaattcagc ttcttcacat 600
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tcctcgccctc tggctacggc tggctgnaat gctgcattgc tgccaataag gggacttctg 720
aacaagaaac taaaggcctt cccagcaaaa aaggaattgt acagtctatt gttggkcaag 780
gctatcatcg taaaatagtt ttggcatcac agtctataca gaatactgtt tatraatggt 840
ggggcagtc tccggccattc ctgtnagcca gtatgggagt tttgcagccc atatgttctc 900
agaaatgcct ggtttgctgg ttacct                                     926

```

<210> 452

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1608)

<223> n equals a,t,g, or c

<400> 452

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gggctcacac ttacccgcgc ggaggancan cggccgggtg tccaccccca tcctgcgccc 180
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gactccccag cccaggtgg gccttggtgca catcatgacc agttttgaag atgctgacac 300
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aatatttcag tcaataagtt ttaacagaga gaaactccct tccagcgaag tggtgaaatt 420
tggccgaaat tccaacatct gtcattatac ttttcaggac aaacaggttt cccgagttca 480
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accaaattag aagtttgact tttatgtgtt atacacaatc ttaaaatttc acgaattcac 1560
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aaaaaaaaaa aaaaaaaaaa aa 1642

```

<210> 453

<211> 2254

<212> DNA

<213> Homo sapiens

<400> 453

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gacatgcaga ggaccgcaga gcctcctgca cctragttct agactcaacg gtgctctgcg 120
ccaggagcag aattttstct accgcttcct ccctgaatga cgaggctgcc caagctctgg 180
gcaagacctg ctgggaaggc cctggtcagc ccggtggtgc agaacatcac ctccccctgat 240
gaggatggca ttagcccccet gggttggctg ctggaccagt acctggagtg tcaggaagct 300
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gtggtctcga gctggctgga gggggccgtg ctggagcaga tcggtccctg cttccccaac 960

```

```

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gagtttgatt ataaaaaaaa aaaaaaaaaa aaaa 2254

```

<210> 454

<211> 1931

<212> DNA

<213> Homo sapiens

<400> 454

```

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gcggcgggcg cagtgggtggc agcgggagac aaatggaaac ctccacaggg cacagactcc 180
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gtgctggtga agcagaccat cgcgcaccag cagcagcagc tcaccaacct gcagatggca 360
gcagtgacaa tgggcttttg agatcctctc tcacctttgc aatcgatggc ggctcagcgg 420
cagcggggcg tggccatcat gtgccgcgtc tacgtgggct ctatctacta tgagctgggg 480
gaggacacca tccgccaggc ctttgcccc tttggcccca tcaagagcat cgacatgtcc 540
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384

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gtggtgtccc cggggccagg cgcgctctgc ccagcccagc ctacagtgcg gataaagggtg 1860
cggatgctgc tggccctgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1920
aaaaaaaaa a 1931

```

<210> 455

<211> 771

<212> DNA

<213> Homo sapiens

<400> 455

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aatgtcctgt gcgactccac ctccaaactg tgccctcaaa ggttgtgtat aagtacctct 540
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg g 771

```

<210> 456

<211> 1169

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1167)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1169)

<223> n equals a,t,g, or c

<400> 456

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cttcgagaga aaaggggagg atgccactgg agtcatcctc ttcaatgcca ctatccttcc 180
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<210> 457

<211> 3249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3234)

<223> n equals a,t,g, or c

<400> 457

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tggtcttgat aaaatgttgg tggatgatat tggtagtga accattacta acgatgggtg 360
aaccatcctg aagttaactg aggtagaaca tcctgcagct aaagttcttt gtgagctggc 420
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tcagcctgca aaaaacaaaa atgaagcttg gtgtacaggt ggtcattaca gaccctgaaa 960
aactggacca aattagacag agagaatcag atatcaccaa ggagagaatt cagaagatcc 1020

```

```

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3249

```

<210> 458

<211> 1916

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1902)

<223> n equals a,t,g, or c

<400> 458

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gccttcacatc tcttgagtac ccaaaccagg cttcagggtgt cctttgagga tagccagggtt 240
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<210> 459

<211> 2773

<212> DNA

<213> Homo sapiens

<400> 459

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gcaaggaggc ggcggcgggc agcgagtggc gagtagtgga aacgttgctt ctgaggggag 180
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gtcctggact gcgccttcta cgatccaacg catgcctgga gtggaggact agatcatcaa 420
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cgcgatctag aac 2773

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<210> 460

<211> 2031

<212> DNA

<213> Homo sapiens

<400> 460

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tttcttcaat cacatctgaa taaatcact gaagaaagct tatagcttca ttgcaccatg 180
tgtggcattt gggcgctggt tggcagtgat gattgccttt ctgttcagtg tctgagtgct 240
atgaagattg cacacagagg tccagatgca ttccgttttg agaatgtcaa tggatacacc 300

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aactgctgct ttggatttca ccggttggcg gtagttgacc cgctgtttgg aatgcagcca 360
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aagaagatgc aacagcattt tgaatttgaa taccagacca aagtggatgg tgagataatc 480
cttcatcttt atgacaaagg aggaattgag caaacaattt gtatgttgga tgggtgtgtt 540
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<210> 461

<211> 1839

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1832)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1839)

<223> n equals a,t,g, or c

<400> 461

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gcccaggccg agcacgatgc cccctaaaaa gggaggtgat ggaattaaac ccccccaat 180
cattggaaga tttggaacct cactgaaaat tggattgtt ggattgcaa atgttgggaa 240
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ccttgtgaaa ggagctcaca atgggcaggg cctggggaat gcttttttat ctcatattag 480
tgctgtgat ggcattcttc atctaacacg tgcttttgaa gatgatgata tcacgcacgt 540
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agatgaggaa atgattgggc ccattataga taaactagaa aagggtggctg tgagaggagg 660
agataaaaaa ctaaacctg aatatgatat aatgtgcaa gtaaaatcct gggttataga 720
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tctacagata atgcatgttt tacagtactc cagatgtcta cactcaataa aacatttgac 1740
aaaacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1800
aaaaaaaaaa aaaaaaaacc ccgggggggg gncccaan 1839
```

<210> 462

<211> 779

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (731)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (759)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (762)
 <223> n equals a,t,g, or c

<400> 462
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 ctgggaatgg agggcagaic caggaagatc ccccagaaaa gaaagctaca gaagaaactg 660
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 aaaagggsgg nccggancca attggcctaa agggggggnt tncaattaat gggccgggt 779

<210> 463
 <211> 1717
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (27)
 <223> n equals a,t,g, or c

<400> 463
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 ttctctcatg actgctactt catggatgat agcttcattg ctttgggtag ggatttaagg 180
 tagtcaaggg gaaaatacgc attttattac aggtcttaac atcaggcaac tttcaacttt 240
 aaaacccttt gtgaaaaatg tggttatagc actatagctc tgattttagg atggttaaatt 300
 gttatattca ttgttggtct accttatcaa actgtgccat taatcctttc acagacatag 360
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 atcttgttts tttcgtgaga gatctcgcca tggcagcatc ttgttaagta agtgtaattg 540

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cacatgcaca aaagacttaa ctagctttac atttagcagt cagttgggta gattagggtt 600
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cgtggattcc atttgaccca gtttactatc agttcagttc aggtagattt ggttcaactt 720
ttgggtggtt ttggctctag gatattcttg actttaatat cctagaactt actgagtctt 780
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<210> 464

<211> 828

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (787)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (819)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (827)

<223> n equals a,t,g, or c

<400> 464

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ggcacgagag atggcggcgc aacagcggga ctgcgggggt gctgcgcagc tggcggggcc 60
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gaagccggta caggtgccct gcggacacgt cttttgctct gcatgcctgc aggaatgtct 180
gaagccgaag aagcctgtct gtggggtgtg tcgcagcgct ctggcacctg gcgtccgagc 240
cgtggagctc gagcggcaga tcgagagcac agagacttct tgccatggct gccgtaagaa 300
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ggaacactgc aaattattcc atagcacgga taccaaatct gtggtttgtc cgatatgtgc 540

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ctcgatgccc tggggagacc ccaactaccg cagcgccaac ttcagagagc acatccagcg 600
ccggcaccgg ttttcttatg acacttttgt ggattatgat gttgatgaag aggacatgat 660
gaatcagggtg ttgcagcgct ccattcatcga ccagtgaagc gagtccgtgc ttgctatctg 720
tctcatgtta cagagcttcc attacatatt aaacgtgaaa tctatgaaaa aaaaaaaggg 780
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<210> 465

<211> 1173

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1171)

<223> n equals a,t,g, or c

<400> 465

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gcgtttcagg cccttgntca ctcaatgacc tccagttctt tagatacaac agtaaagaca 180
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caccttgagc ccacccccac cccattgtct aatctgtaga agctaataaa taatcatccc 1140

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tccttgcccta gcaaaaaaaaa aaaaangngg ngg 1173

<210> 466

<211> 521

<212> DNA

<213> Homo sapiens

<400> 466

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tgctggacat gtccctacgag cagctgatgc agctgtacag tgcgcgccag gcggcggctg 180
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gagatcaagc ccgagatgat cggccactac ctgggcgagt tctccatcac ctacaagccc 420
gtaaagcatk gccggcccg catcggggcc accactsct ccgmttcat ccctctcaag 480
taatggctca gytaataaag gcgsacatga ctccaaaaaa a 521
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<210> 467

<211> 1428

<212> DNA

<213> Homo sapiens

<400> 467

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tgagcaccct tacctgaccc catccccga atcccctgag cactgggcca gccctcacc 180
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<210> 468

<211> 3463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1187)

<223> n equals a,t,g, or c

<400> 468

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<210> 469

<211> 621

<212> DNA

<213> Homo sapiens

<400> 469

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<210> 470

<211> 1833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (524)
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<220>
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 <222> (1798)
 <223> n equals a,t,g, or c

<220>
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 <222> (1812)
 <223> n equals a,t,g, or c

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<210> 471
 <211> 3202
 <212> DNA
 <213> Homo sapiens

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 <222> (4)
 <223> n equals a,t,g, or c

<220>
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 <222> (3160)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (3180)
 <223> n equals a,t,g, or c

<400> 471
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<210> 472

<211> 941

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (927)

<223> n equals a,t,g, or c

<400> 472

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<210> 473

<211> 1279

400

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1144)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1273)
 <223> n equals a,t,g, or c

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<210> 474
 <211> 3209
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (427)
 <223> n equals a,t,g, or c

<400> 474
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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <222> (15)
 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>
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 <222> (73)
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 ttactaatg tattactgag actagtaaataa aaatttttaa ggcaaaatag agc 833

<210> 476
 <211> 1141
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 476

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<210> 477

<211> 1102

<212> DNA

<213> Homo sapiens

<400> 477

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<210> 478

<211> 4201

<212> DNA

<213> Homo sapiens

<220>

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<222> (4077)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4186)

<223> n equals a,t,g, or c

<400> 478

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<210> 479

<211> 787

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (780)

<223> n equals a,t,g, or c

<400> 479

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tggaggttgt agtaccgccc ccagagccaa ttttccactt ccgcktcgg cgctgcggca 180
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gtctcccatc cctttgcttg tggcaggaga tggcttaaat aaataactta aayttaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactn 780
ggggccg
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<210> 480

<211> 731

<212> DNA

<213> Homo sapiens

<400> 480

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<210> 481

<211> 1119

<212> DNA

<213> Homo sapiens

<400> 481

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gagaacttca aactgaagca ctacgggcct ggctgggtga gcatggccaa cgcaggcaaa 660
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ctggcatctg gtggagcggg cccactcccc tcacattcca caggcccatg gactcacttt 1020
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ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 1119

```

<210> 482

<211> 2056

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 482

```

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ggaggccacg ggcattgnatg cttcgggtcc tgggtggggc tgtcctccct gccatgctac 180
tggctgcccc accacccatc aacaagctgg cactgttccc agataagagt gcctgggtgcg 240
aagcaagaac atcacccaga tcgtgggcca cagcggctgt gagggcaagt ccatccagaa 300
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gctggagtgc ccgggccacg aggaggtgcc cagggtggac aagctgggtg agaagatcct 480
gcaactgtagc tgccaggcct gcggcaagga gcctagtac gaggggctga gcgtctatgt 540
gcagggcgag gacgggcccg gatcccagcc cggcaccac cctcaccccc atccccacc 600
ccatcctggc gggcagaccc ctgagcccga ggacccccct ggggcccccc acacagagga 660
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```

```

ctaggccccc cagaaagctg tcagagccgg ccgccttctc ccctctccca gggatgctct 1560
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cgacgcgggc ttctggagct tgtcaccatt ggacagtctc cctgatggac cctcagtctt 1980
ctcatgaata aattccttca acgccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaamaggggg gggccc                                     2056

```

<210> 483

<211> 887

<212> DNA

<213> Homo sapiens

<400> 483

```

tgctacaaat aggaaggaat tgtaataatg atatttggcc tctactttgt cttagctggt 60
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attaatttca agaaaaatat cttgagtttt aagaaataaa catctccaga aaaggagaaa 180
gtcgatttta taaaatgtcg caactctcca acatttgggg tagtgactcc ttttttgtaa 240
ggacatttga aactagcaag cagccattgt ttctaaagaa ttctggcttc acattgactc 300
atgtttcttt cactccattt tgaaatagct aaaaatcatt aaaactgtaa atattttggt 360
gcttggttaa gcatcttctg ggaactttgt atctatggta tataatcata gaattttata 420
ttttcatata aagctaattt ttttctagtt tcaactccgt catagtkttt tttccttttt 480
gtggtggata tgtgaattca actttctgtg tattgaagta gcaaaaacca tctttacatt 540
ccaaaagaat ccaacatgtg ttatttcttt gaggcagtga ttgtgaaagt tgggttttct 600
ttttaattcc attgaccatt tgtgcaatag gaattagaca taattagtca ctgaaaacat 660
tcgtcacatt gaccattttg gaaaaagtgt gctttttttt ttttttttaa tttgttcagg 720
gggaggggtt ttgtaacctg aaatttttcc ctttttcttc tgtttaaact atatcaaac 780
attctattat agtgttattt aatatgtaaa ttgtattgct atacataaaa taaagtatgg 840
tttttgatgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaa                                     887

```

<210> 484

<211> 1878

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1446)

<223> n equals a,t,g, or c

<400> 484

```

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actatgagcc cgaggccttc ccctctccca gaggcgagag gctttgaagg ctacctctgg 120
gaagccgctc accgctcgga gctgcgggag ctgaaactgc gccatcgtca ctgtcggcgg 180
ccatgacacc gctcgtgtcc cgcctgaktc gtctgtgggc catcatgagg aagccacgag 240
cagccgtggg aagtggtcac aggaagcagg cagccagcca ggaagggagg cagaagcatg 300
ctaagaacaa cagtcaggcc aagccttctg cctgtgatgg cctggccagg cagccggaag 360
aggtggtatt gcaggcctct gtctcctcat accatctatt cagagacgta gctgaagtca 420

```

```

cagccttccg agggagcctg ctaagctggt acgaccaaga gaaacgggac ctaccatgga 480
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aggatcatgct gcagcagacc cagggttgcca ctgtgatcaa ctactatacc ggatggatgc 600
agaagtggcc tacactgcag gacctggcca gtgcttccct ggaggagggtg aatcaactct 660
gggctggcct gggctactat tctcgtggcc ggcggctgca ggaggagct cggaagggtg 720
tagaggagct agggggccac atgccacgta cagcagagac cctgcagcag ctctgcctg 780
gcgtggggcg ctacacagct ggggccattg cctctatcgc ctttggccag gcaaccgggtg 840
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aagtatatgg gctggccttg gaagggcaga cccagtgac caccgtacca ccagggtgctc 1560
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gtctcacatc tccactgatg cacacagcct caacagtgca gccagtgac acctctgaaa 1800
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aaaaaaaaa aaaaaaaaaa 1878

```

<210> 485

<211> 1566

<212> DNA

<213> Homo sapiens

<400> 485

```

ctttcatact accctttagt cataaggaga aaaaaacact caaatagtag aagcagcaag 60
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tcctttcatg gttataacac attggcagac tttttgctgg ctctgggagc catgatttta 180
atcacattct gcaagggtgac aaatgtcata cattccacat tgtgtggtag ccatctcttt 240
agactcatgt gttttgggga aaggaagaag ttcttggtg agtactattt tgaactttcc 300
agaaccctct cacaccagag acagttcttc tctgttcagt ttccaatccc cgataatttg 360
ctaaaataac attgtacatc caagagaggg aagaagagta tgtcagtata ttatgcagaa 420
gatagataca gccttttcag aagatctcca ctagtttttg ttccaaaaat tcaagtttat 480
gggagaaatc tcaattagcc accttttcac agttgtgtgg atataacatt tgggggatct 540
ttctggactc ctacctatct gtgcatttta ccggcacctc aggaaaggag ggtgaccagg 600
ttgtcttagc ttgtactgct tggatgctc tgaggacctt ctaattcagt tgtacccag 660
tgttccatgt atagaaaaac ttcattagaa caaactttac ttgatatgaa actcctatta 720
acagtctttt tttgaaataa aaagtagctt gagctttctt ttaaaatcat gtatcttgat 780
tgttgattta atgaaggatt tccttttaat gctgcttttg agcttcaagg taataggaca 840
gcaggaacct aaaatatctg ccatcatctg ccataggaaa gataccaga gaccatcat 900
gttctctttt tgttggtaca ctgttggtg ggtataacaa ttggaaaatg acaaaactga 960
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tgtatacata tgcactaact ttgatcaatt atattctcat atctgttagc tacacagtct 1080
cctattatct caattgctta tgtgcatatg gaatatgtta cttaaacgt gtgcattctt 1140

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actgaaaatg ttttcaaagg aagggtatcag ctgtgggcta attgccacca atttcagcct 1200
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cattctgtaa tcaactgagc tagttccaat aaagttaagc aggtttaaat ccactttgtg 1500
cctatctttt cactgacaat aaagtttagct attttaaaat gcaaaaaaaaa aaaaaaaaaa 1560
aaaatt                                           1566

```

<210> 486

<211> 3046

<212> DNA

<213> Homo sapiens

<400> 486

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ctatcaggcc agcgttttaa aactagaaaa agagatgaaa aagagagggt tgaccctact 180
cagtttcaag actgtattat tcaaggctta actgaaaccg gtactgattt ggaagcagta 240
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tttgacattc tgggtggctgg tggaatgctg gccccagggt gtacactggc agatgacatg 360
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gctcagggtt ttaacaagtt aatcaggcgc taaaaatacc tggagaaaagg ttttgaagat 480
gaagtaaaaa agctgctgct gttcttgaag ggtttttcag agtcggagag gaacaagcta 540
gctatgttga ctggtgttct tctggctaata ggaacactta atgcatccat tcttaatagc 600
ctttataatg aaaatttggg taaagaagga gtttcagcag cttttgctgt gaagctcttt 660
aaatcatgga taaatgaaaa agatatcaat gcagtagctg caagtcttcg gaaagtcagc 720
atggataaca gactgatgga actctttcct gccataaagc aaagtgttga acacttcaca 780
aaatatttta ctgaggcagg cttgaaagag ctttcagaat atgttcggaa tcagcaaacc 840
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gagctttagt cagagcaagc catcaagcac ttgaagcaat acagccctct acttgctgcc 1080
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gacaacattc atttcatgaa agccttccag aaaatagtgg tgctttttta taaagctgaa 1200
gtcctgagcg aggagcccat tttgaagtgg tataaagatg cacatgttgc aaaggggaag 1260
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ttgctggaaa tggtgggttt agtttctaaa accatgtttt aagtagctac aggagctata 1560
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tataaacagt ttaaggata tgatttggtt aaaaaataat ttgttataaa aattctgttt 1740
gcaaatataa ctggaaaagt atccagagtc tcaaaaggca atgattttgt agataatatg 1800
gcatgcccgg agccctgctc atcaatgaaa aaccatattg taataatcga attcatttaa 1860
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gaggtggtgg gaagaagaaa gttgagcttt tcccccttga gaaacttctg catttagttt 2100
ctatctttcc aggcaaaaca aatgggtatt cttttcatat aaccattttc aaatgaacct 2160

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ttacacttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 3046

```

<210> 487

<211> 1904

<212> DNA

<213> Homo sapiens

<400> 487

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tccggcctcc ggggccttgc ggagactcac cccttcagcg tcgctgcccc cagctcagct 180
cttactgcgg gccgctccga cggcgggtcca tcctgtcagg gactatgcgg cgcaaacatc 240
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ggagaccaga ctggttttgg aggtggccca gcatttgggt gagagcacag taaggactat 420
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aatcaaaatt cctgttggtc ctgagacttt gggcagaatc atgaatgtca ttggagaacc 540
tattgatgaa agaggtccca tcaaaaccaa acaatttgct cccattcatg ctgaggctcc 600
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tctgctagct ccctatgcc aagggtggcaa aattgggctt tttggtgggt ctggagttgg 720
caagactgta ctgatcatgg agttaatcaa caatgtcgcc aaagcccatg gtggttactc 780
tgtgtttgct ggtgttgggt agaggaccg tgaaggcaat gatttatacc atgaaatgat 840
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accattgaa gaagctgtgg caaaagctga taagctggct gaagagcatt catcgtgagg 1680
ggctcttctc ctctgtactg tctctctcct tgcccctaac caaaaaagct tcatttttct 1740

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gtgtaggctg cacaagagcc ttgattgaag atatattctt tctgaacagt atttaagggt 1800
tccaataaaa tgtacacccc tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 1904

```

<210> 488

<211> 827

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (826)

<223> n equals a,t,g, or c

<400> 488

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cccacagtgg tgatgacgtc catgggccag gccacctgga gtgaccccca caaggccaag 540
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 827

```

<210> 489

<211> 1926

<212> DNA

<213> Homo sapiens

<400> 489

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<210> 490

<211> 1461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1452)

<223> n equals a,t,g, or c

<400> 490

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<210> 491

<211> 805

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<400> 491

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tattagagag gtacttttaga ggcttcttga ttggcataaa gttcctaagg ttatagattt 660
tcccccttt tggtgtgata gcaaagtgtt ttaatccacg gttgtgcctt attgttccat 720
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aaaaaaaaa aaaaaaaaaa aaaaaa                                     805

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<210> 492

<211> 2269

<212> DNA

<213> Homo sapiens

<400> 492

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ccggcgcgcg cgcgcacaca ctcaggctga gcagaagagg agggacgcca tcaagagagg 180
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aaagatcatg aaagtgaact atgagcagat tgtgaaggca caccaggaca acccccatga 420
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<210> 493

<211> 4108

<212> DNA

<213> Homo sapiens

<400> 493

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ttaaaccagc tcatatactg caagagaaag aagaacagca tcagttggct gtcactgcat 540
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<210> 494

<211> 2209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 494

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<210> 495

<211> 1677

<212> DNA

<213> Homo sapiens

<400> 495

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<210> 496

<211> 1702

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1691)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1701)

<223> n equals a,t,g, or c

<400> 496

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cagaggctaa gacccatccc gtatctgctc tcctgaaata attctggagt catgcctgaa 180
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<210> 497

<211> 2376

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2354)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2376)
<223> n equals a,t,g, or c

<400> 497
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cccacaagca gaccgggctg tatggcatca ccacggccct gtctcagtggt ccgcaagcca 180
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acaagagtgc cttattttcct ttccaagtat ttccacagcaa caywytactt gaagcaactt 360
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aaccactgaa ggtgcttatt aactgttctc ccagatttgt acaagtattg gatgattcct 2280
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2376

<210> 498

<211> 840

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 498

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gatcgaccgc gagaagacat gccactgtt gctacgggtc ttcaccacca ataacggccg 180
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catgaccctg cagtcgcaga agttccagat aggagattac ttggacatag caattacccc 480
tccaaatcgg gcaccacctc cttcaggggc catgagacca tattaatttc tatttactat 540
ttgttgaatt tatttttccg tcagttatgt aaaataaaca tactcttctt cctcccctga 600
ttattgccat taagccttta aattctaaac aaattataat gcatcatcta tttaggagtt 660
agatttggat gtgctattgt atgattacga atagtctgta tgtttcaagc ctttctgtaa 720
aatatgaaga aaagtgtctt tagcattctg tgtaaaactg tactgtttaa tatatgtgtg 780
taatcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840

<210> 499

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<400> 499

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cgccatgtct tctcacaaga ctttcaggat taagcgattc ctggccaaga aacaaaagca 120
aaatcgctcc attccccagt ggattcggat gaaaactgga aataaaatca ggtacaactc 180
caaaaggaga cattggagaa gaaccaagct ggggtctataa ggaattgcac atgagatggc 240
acacatatatt atgctgtctg aaggtcacga tcatgttacc atatcaagct gaaaatgtca 300
ccactatctg gagatttcga cgtgttttcc tctctgaatc tgttatgaac acgttggttg 360
gctggattca gtaataaata tgtaaggcct ttcyttttta aaaaaaaaaa aaaaacyyrr 420

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461

<210> 500

<211> 2782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2643)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2742)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2779)

<223> n equals a,t,g, or c

<400> 500

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tcaccaaccg ctccccctctc gcctatgtct cctcctgggt acaagctggt tactggcgac 540
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cagccttttg atttccccga tgataaccag aattctaaaa aactagctgc tggacatgaa 720
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aattggtagt gngaatactt cttcaaggac tattacttgg gnggttgag aatttattnt 2760
ggaagaaggc aaatgcttng gg 2782

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<210> 501

<211> 1249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<400> 501

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agtttttgat cctggtgaac ccgcctgaga cgggtgctgtg aggggaaagc cttccgcacc 180
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tgagtattta tctttttatt ttttattttt ttttttgaaa gaatgtcttg gaatgcgcaa 360
gtctcccttt agagccgtct tttgcaggga gcgggaagtg acaagagctc agatctccct 420
cccgatctcc ctccccacct ccgaagtctc ctccgtggac cacagggtga tctttgtgcg 480
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<210> 502

<211> 1358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1351)

<223> n equals a,t,g, or c

<400> 502

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ccgcaccct agccaggccc cagggagcct ccgctgggcc cagacagcag cgttyggttt 60
tatccacttt tctyggataa tcaggagggtg cccagtsgt cacagtgtgg cattccgagt 120
tggggcgggg ggtcgggtca agatagcagc agcagggtgtc agggctcaag acaccacccc 180

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ctccagcttc tggggcccag gagcctctcc ctgctacagg ggggtgggggt cctgctcagc 240
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<210> 503

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<400> 503

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gcccacgcgt ccgacggctg cgagaagacg acagaagggg ctttctttct ttccgcgccg 60
atagcgctca cgcaagcatg gttaacgtcc ctaaaaccgg ccgactttc tgtaagaagt 120
gtggcaagca ccaaccccat aaagtgcac agtacaagaa gggcaaggat tctctgtacg 180
cccagggaaa gcggcgttat gacaggaagc agagtggcta tgggtgggcaa actaagccga 240
ttttccggaa aaaggctaaa actacaaaga agattgtgct aaggcttgag tgcgttgagc 300
ccaactgcag atctaagaga atgctggcta ttaaaagatg caagcatttt gaactgggag 360
gagataagaa gagaaagggc caagtgtacc agttctaagt gtcattttt attatgaaga 420
caataaaatc ttgagtttat gttcaaaaaa aaaaaanggg gggggcccgg taccawtcg 480
cctatagggg gncgttttaa a 501

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<210> 504

<211> 2011

<212> DNA

<213> Homo sapiens

<220>
 <221> misc feature
 <222> (1941)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1961)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1974)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1976)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2002)
 <223> n equals a,t,g, or c

<400> 504
 gatctgcctt cccagttaga ctgagagaac aggggatata cctaaataat aataataata 60
 ataataataa taataataat aaataataat ggagagctcc ttgaagatag ggagcctgta 120
 agaatcattg agggccttatt ttgtatacca actgctaaac tagatgcttc atacattggt 180
 gtcaatactc atgacagcct tgtaaagtag aaawtaattc ttccagttaa cackaaggct 240
 gacatatgaa taccttggca aatctggaaa gctgggaaga cagtaattga actcaagact 300
 tcttgtcacc aagggcattgc acttgtactc tgccatgtgg scctttttta cctcctgtgg 360
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 gcatttttga caggcagggg tttcagggtca taaacattct gatgagttaa tataaaataa 660
 gagaaaactgt aaatttccac tactaaaaat cacaaaaata acagaaacaa agaagagat 720
 aagaatttgg ggaattgtgc tgaacaattt agtggttaaa aaaaacaact gtgcatgttt 780
 agacttaaat aagcccccat ccaagtgtga ggggtccagt aatttttcaa aacatatgaa 840
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 gaaagtaatg actaatacat tctctagaga cttgcagact ttgggaattc ataaaggaat 960
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 aagtctctgg gtttgggatg gatcaattct gagactggaa aatggccaaa tctttgcaaa 1080
 tgagaaatat ttttcttata agttcttatt gtaggcaaat aattacatag attattcatc 1140
 agagaatttt taaatgtcca taatctcaac tctttcattt acaacttgta tttccaatag 1200
 tttatgggtc atctctgcat agatgtcaga agtcacctca agtttagygt gtccaaaaatc 1260
 taactcacag gtctgtttct gacctcccaa cttgctttcc ttgtgttttt cctatgctaa 1320
 tgatccacca taatcaaaat aattaacatt ttccagtgct ctactatgta ctattccctg 1380
 tctgttttta catttactca tttaaagtcc ataagaaaca ttaaattctca tctgccttct 1440


```

gaagaagata caaccatgct ctctttttaca aagtaggaaa ctgggtcaca gaaagggtgaa 1500
gtctttaagg ctgaatcaca gtagctcatc ctagtaaata gaaaagccag gattcaactc 1560
caggggctgg gtgcagaact gctattcttc actgcttcac caatcagcag ctaccaaggg 1620
cagaaaaactt tttcatcctt ggctccttca ttctccctgt caccocagat cccctctaca 1680
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cattgcttta tcacgkrtta cctgggttgc tattacataa agagcaatct ttctaaaatg 1860
agggatctta tcaacttcaact tccacactaa aatgtttttc ctgggggaac cacacttctt 1920
tagcaatctg acccatcaga nctttccagg ctgtctcctg nctggttccc taangntccc 1980
agccaacacc ggaattatca tngggcccaa a 2011

```

<210> 505

<211> 1989

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1917)

<223> n equals a,t,g, or c

<400> 505

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gggtgaggggt cggccgtgca cagcctgtcc cagccgtcct gtcctggctg ctgctctctgc 60
ttcgtctgctc cgccactatg ctctccctcc gtgtcccctc cgcgcccac acggacccgc 120
agcagctgca gctctcgccg ctgaaggggc tcagcttggg cgacaaggag aacacgccgc 180
cggccctgag cgggacccgc gtcctggcca gcaagaccgc gaggaggatc ttccaggagc 240
ccacggagcc gaaaactaaa gcagctgccc ccggcgtgga ggatgagccg ctgctgagag 300
aaaacccccg ccgctttgtc atcttcccca tcgagtacca tgatatctgg cagatgtata 360
agaaggcaga ggcttccttt tggaccgccg aggaggtgga cctctccaag gacattcagc 420
actgggaatc cctgaaaccc gaggagagat attttatatc ccatgttctg gctttctttg 480
cagcaagcga tggcatagta aatgaaaact tgggtggagc atttagccaa gaagttcaga 540
ttacagaagc ccgctgtttc tatggcttcc aaattgccat ggaaaacata cattctgaaa 600
tgtatagtct tcttattgac acttacataa aagatcccaa agaaagggaa tttctcttca 660
atgccattga aacgatgcct tgtgtcaaga agaaggcaga ctgggccttg cgctggattg 720
gggacaaaga ggctacctat ggtgaacgtg ttgtagcctt tgctgcagtg gaaggcattt 780
tcttttccgg ttcttttgcg tcgatattct ggctcaagaa acgaggactg atgcctggcc 840
tcacattttc taatgaactt attagcagag atgagggttt aactgtgat tttgcttgcc 900
tgatgttcaa acacctggta cacaacccat cggaggagag agtaagagaa ataattatca 960
atgctgttcg gatagaacag gaggttcctc ctgaggcctt gcctgtgaag ctcatggga 1020
tgaattgcac tctaataaag caatacattg agtttgtggc agacagactt atgctggaac 1080
tgggttttag caaggttttc agagtagaga acccatttga ctttatggag aatatttcac 1140
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tgtcaagtcc aacagagaat tcttttacct tggatgctga cttctaaatg aactgaagat 1260
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agttaaaaga ttaggcctca ctgcttcaac gcagatttta atgtttactt aaatataaac 1620
ctggcacttt acaaacaaat aaacattgtt tgtactcaca aggcgataat agcttgattt 1680
atgttggtttc tacaccaaat acattctcct gaccactaat gggagccaat tcacaattca 1740

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ctaagtgact aaagtaagtt aaacttgtgt agactaagca tgtaattttt aagttttatt 1800
ttaatgaatt aaaatatattg ttaaccaact ttaaagtcag tcctgtgtat acctagatat 1860
tagtcagttg gtgccagata gaagacaggt tgtgttttta tcctgtggct tgtgtantgt 1920
cctgggattc tctgcccccy ctgagtarag tgttgtgggr taaaggaatc tytcaggggc 1980
agggggcctt                                     1989

```

<210> 506

<211> 1085

<212> DNA

<213> Homo sapiens

<400> 506

```

gggcggtggcg gcgctgtgcg cgtgcacaaa agagagctga ggggcggggg cgctgcggca 60
cagctggttt gagcaactga actggaaaca agatgcagga ccccaacgca gacactgaat 120
ggaatgacat cttacgcaaa aagggtatct taccgcccaa ggaaagtctg aaagaattgg 180
aagaggaggc agaagaggag cagcgcatcc tccagcagtc agtggtgaaa acatatgaag 240
atatgacttt ggaagagctg gaggatcatg aagacgagtt taatgaggag gatgaacgtg 300
ctattgaaat gtacagacgg cggagactgg ctgagtggaa agcaactaaa ctgaagaata 360
aattyggaga agttttggag atctcaggga aggattatgt tcaagaagtt accaaagctg 420
gcgagggcctt gtgggtcatc ttgcacctt acaaacaaagg aattcccctc tgtgccctga 480
taaatacgca cctcagtggg cttgccagga agtttcctga tgtcaaattt atcaaagcca 540
tttcaacaac ctgcataccc aattatcctg ataggaatct gccacgata tttgtttacc 600
tggaaggaga tatcaaggct cagtttattg gtcctctggt gtttggcggc atgaacctga 660
caagagatga gttggaatgg aaactgtctg aatctggagc aattatgaca gacctggagg 720
aaaaccctaa gaagccgatt gaagacgtgt tgctgtcctc agtgcggcgc tctgtcctca 780
tgaagaggga cagcgattcc gagggtgact gaggctacag cttctatcac atgccgaact 840
ttcttgtgac aaattgtctg gattttttaa aaaaggaaaa agcaagaatg aatccttgtg 900
gttttttagtt ttgtataaat tatgtttcaa atctttacat tttggaaata atcattgctg 960
gagattctgt taaatatattt ggaactcttt tttttttaa ttatagtatt tcctctaaaa 1020
aaaattaaaa ccagccattt gtatggcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaa                                     1085

```

<210> 507

<211> 1485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1485)

<223> n equals a,t,g, or c

<400> 507

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cgccgcccgt gcctttcttc ttctctctyc tcttccttgg catccgcctc ttcttctctc 60
tggtctctcc cccgtctgct ccgtctgctc cgacgcggag cccggagccc gcgccgagcc 120
cctggcctcg cgggtgccatg ctgccccggc ggccggcgtg aaggatggcg acgccgctgc 180
ctccgccctc cccgcggcac ctgcggctgc tgcggctgct gctctccggc ctggtctctg 240
gcgcgcgcct gcgtggagcc gccgccggcc acccggtatg agccgcctgt cccgggagcc 300
tggaactgtgc cctgaagagg cgggcaaggt gtcctcctgg tgcacatgcc tgtgggacct 360
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caggcggggg ccggcccccag cccagactgg aagatgagat tgacttctg gccaggagc 480
ttgcccgaa ggagtctgga cactcaactc cggccctacc caaggaccga cagcggtcc 540
cggagcctgc caccctgggc ttctcggcan gggggcaggg gctggakctg ggcctccct 600
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acccggtgca catgtcgccc ctggagcccc ggggagggca aggcgacggc ctgcacctg 720
tgctgacctt ggcgttctgt gtggccgggt cagccgccct ctccgtagcc tccctctgct 780
gggtgcaggct gcagcgtgag atccgcctga ctcagaaggc cgactacgcc actgcaagg 840
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cggagatgta ccactaccag caccaacggc aacagatgct gtgcctggag cggcataaag 960
agccacccaa ggagctggac acggcctcct cggatgagga gaatgaggac ggagacttca 1020
cgggtgtacga gtgcccgggc ctggccccga ccggggaaat ggagggtgcg aacctctgt 1080
tcgaccacgc cgcactgtcc gcgccctgc cggcccccag ctcaccgcct gcactgcat 1140
gacctggagg cagacagacg cccacctgct ccccgacctc gaggcccccg gggaggggca 1200
gggcctggag cttcccaacta aaaacatggt ttgatgctgt gtgcttttgg ctgggcctyg 1260
ggctccaggc cctgggacct cttgccaggg agacccccga acctttgtgc caggacacct 1320
cctggtcccc tgcacctctc ctgttyggtt tagaccccca aactggaggg ggcattggaga 1380
accgtagagc gcaggaacgg gtgggtaatt ctagagacaa aagccaatta agtccattt 1440
cagacctgcy gaaaaaaaaa aaaaaaaaaa aaacnnnggg ggggn 1485
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<210> 508

<211> 1930

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 508

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ttatttgtaa aaagatgagg acacacatta artgawgtca gcatttttagt aaacttttag 120
acaaaatttg ttaggtcat tcatgaaaac tttaatacta aaagcacttt ccattatata 180
ctttttaaag gtctagataa ttttgaaacca atttattatt gtgtactgag gagaaataat 240
gtatagtaga ggacagcctt gtttgtaaaa gctcagttcc actagtcat ggttttgtgc 300
aacttctgag cctcagtttt ctctttgca aattaataat tacatacctt tatagatttt 360
gaaattaatt taaatattag tatttggtac atgaaggctt aatgttaagt ttcttttaat 420
```

```
gatccacaat aatccctttg atcacgttaa tctaaatcta gatgtctttg tctaattttt 480
tttgaatagc agttataaat gtaaaggact caaagtttaa gtaaaaagtg atactccacc 540
tttgtgtttca aagaatttag ttccacctct tcataccagt ttaacactta atatatattca 600
ttggattttta gacagggcaa aaggaagaac aggggcctct ggaggccctt ggttatttta 660
atcttggatt atttgtgata gtaatcacia atttttggct aatttttaac ctgaggtttt 720
gttttttttt taaaggaaat gcagcctagt cttgagaaca taattttata taatcaatta 780
ctaaatgtta aactattacc acacagccca taaaacagca tttgcgttta ttgagagaga 840
ggatgtgcca tcatgattaa tgaaaactat cttttgagtt tgaaaagaaa ttaatttgca 900
gtgtttggat tgtatatatg gtgctaaaaa taaattaatt tactttataa accttatctg 960
tacattatac gatgtgatga aatttgcttt ttatccaaat attttgcata ttgtaaatat 1020
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agagttatga gttgaagtct tgaatgcagg aaactatctg atagtgttct aaaatttggg 1140
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tctatagcaa ccataatgtt gatgtaagta atgcggttac tgaatcataa gaaaatgcc 1260
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gccttaacac agctctatac ctagaagcag ccagcccagg catgcagtca catttaatca 1440
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atctcttgaa atttattttt ttaatgtcat attcatctgg taaatatcta ctgtttgcc 1560
ggcattttaag aatatggcaa agaacataaa agatggtgtc accagatttt ggccaccaat 1620
gagtaccoga cccgttgcca tgattaagag agaatgcttt ctattggagt ttcaggaaat 1680
ataatttgag aatactttaa aggaagtgg aagtataagt gaatgatatt tttcttttac 1740
atgtaacaa tgaagtatt tcaaagttaa gttttaaaaca aaatacatga agtagtgtct 1800
gccatacatg ttaatatctt acattcttgc ttcccttaaat taatatgttt gtgtgtatat 1860
atgtgcctca cacctgaatt gaaaattaaa gactgggtta aaagtgaaaa aaaaaaaaaa 1920
aaaaaaaaat                                     1930
```

<210> 509

<211> 1134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1041)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1064)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1090)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1106)
 <223> n equals a,t,g, or c

<400> 509

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gagccacgcc cgggctgttg gaataagatg gcggggaaga agaattgttct gtcgtctctc 60
gcagtttacg cggaagattc agagcccgag tctgatggcg aggctggaat cgaggcgggtg 120
ggcagcgcgg ctgaggagaa aggcggattg gtatctgatg cctatgggga ggatgacttt 180
tctcgtctag ggggtgatga agatggttat gaagaagaag aagatgagaa cagtagacag 240
tcggaagatg acgattcaga gactgaaaaa cctgaggctg atgacccaaa ggataatata 300
gaagcagaaa agcgagaccc ccaggaactc gtggcctcct tttctgaaag agttcggaac 360
atgtcgcttg atgaaatcaa gatcccgcca gaacccctg gcagatgttc aaatcacttg 420
caagacaaga tccagaagct ttatgaacga aagataaagg agggaatgga tatgaactac 480
attatccaaa ggaagaaaga atttcggaac cctagcatct acgagaagct gatccagtgc 540
tgtgccattg acgagcttg caccaactac ccaaaggata tgtttgatcc ccatggctgg 600
tctgaggact cctactatga ggcattagcc aaggccaga aaattgagat ggacaaattg 660
gaaaaggcca aaaaggagcg aacaaaaatt gagtttgtga cgggcaccaa aaaaggcacc 720
acgaccaacg ccacgtccac caccactacc actgccagca cagctgttgc agatgctcag 780
aagagaaaga gcaagtggga ttcggtatc ccagtgacaa cgattagccc agcccaccat 840
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aaggaccacc gtcactctctg ctgtggggca ccattgtgaa gaaggccaag cagtgcctg 960
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gcccaacttn aggagggagt ttttntttt tgggcttttc caggttgga aggg 1134

```

<210> 510
 <211> 1382
 <212> DNA
 <213> Homo sapiens

<400> 510

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cctcttgggg agtgacagtg cccactctg ttaagtcca tgctgcccc caactcagct 120
tcagccacaa tgatgtagcc tcttttcctt tccatccaca gggcacctgg cctgggtgga 180
gccactcct cagcaccac ctcacttctt gcagtattct gcagaccca gccctgtgcc 240
tgtgtcctg gacagctgga gataaggagt gggccctgga agatgctcat tcaggccctg 300
ctcaagattc cagtcctgat tgctggactc gctgaagara gactacgcag gaaagcccca 360
gccacccatc aaatcagaga gaaggaatcc accttcttac gctatggcag gtaagaaagt 420
actcattgtc tatgcacacc aggaacccaa gtctttcaac ggatccttga agaattgtggc 480
tgtagatgaa ctgagcaggc agggctgcac cgtcacagt tctgatttgt atgccatgaa 540
ctttgagcgg agggccacag acaaagatat cactggtact ctttctaata ctgagggttt 600
caattatgga gtggaaaccc acgaagccta caagcaaagg tctctggcta gcgacatcac 660
tgatgagcag aaaaagggtc gggaggctga cctagtgata tttcagttcc cgctgtactg 720
gttcagcgtg ccggccatcc tgaaggctg gatggatagg gtgctgtgcc agggctttgc 780
ctttgacatc ccaggattct acgattccgg tttgtccag ggtaaactag cgctcctttc 840
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atacttcctg tggccactcc agcatggcac attacacttc tgtggattta aagtccttgc 960
ccctcagatc agctttgtct ctgaaattgc atccgaagaa gaaagaaagg ggatgggtggc 1020
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```

```

ctggcacttc gggcaataac tctgtggcac gtgggcatca cgtaagcagc acactaggag 1140
gccaggcgcc aggcaaagag aagatgggtgc tgtcatgaaa taaaattaca acatagctac 1200
ctgggggatac ttttttcttt ctgttttttg tttgttttta attttagctt taaggagcac 1260
atggccagta ctgtttcagg ggaatattgg gtggcgctgg ggtttgggct tctattgac 1320
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cc 1382

```

<210> 511

<211> 1741

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1696)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1710)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1715)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1717)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1720)

<223> n equals a,t,g, or c

<400> 511

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ataattttct tcaaacaaaa aaatgtatag aaaaatcatg tctgtgastt cattttttaa 120
tgtacttgct cagctcaact gcatttcagt tgtattatag tccagttcct atcaacatta 180
aaacctatag caatcatttc aaatctattc tgcaaattgt ataagaataa agttagaatt 240
aacaatttta ttttgtacaa cagtgggaatt ttctgtcatg gataatgtgc ttgagtcctt 300
ataatctata gacatgtgat agcaaaaagaa acaaacaaaa gccaggaaaa cactcatttt 360
cgccttgaat atgtaaatgg gattaatttt gtccgtgtgcc ttatgtggaa aggaacttct 420
ttgggttttc ttttttggtc tgggtggaagc atgtgcagga gacatatcat ccaaacataa 480
accattaaaa tggttgtggg ttgcttggtt gtaattttca aagtagttaa ttgaggacaa 540
agggtaatgc agaagtgata gctttgggtt gctgagtcct gttttaagtg gccttgatat 600
ttaaactat tcctgccacc atttcttctc cttggccact tcttccttgc gtctccctgc 660
atgctgcttt atttgcttct ccctcccaa ccacctcatg gtatatttaa gagtgaaagg 720
gacaaactag taggtttgtc aagtttaata taaagcactg atgtaacttg ctaggtaaac 780

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<210> 512

<211> 1530

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1342)

<223> n equals a,t,g, or c

<220>

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<222> (1444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<400> 512

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```

<210> 513

<211> 2999

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

<221> misc feature

<222> (2606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2996)

<223> n equals a,t,g, or c

<400> 513

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```



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<210> 514

<211> 2048

<212> DNA

<213> Homo sapiens

<400> 514

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ggactttata tgttcaagt caggaattgg aaagttggac ttgttttcta tgatccaaaa 180
cagccctata agaaggttgg aaaaggagga actatatagc agcctttgct attttctgct 240

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aaaaaaaaa 2048

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<210> 515

<211> 3300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<400> 515

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<210> 516

<211> 3425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 516

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ttaaactggc ttaacttagt atattattat taattacaat gtaatagaag cttaaaataa 3360
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ggggc 3425

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<210> 517

<211> 1358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1356)

<223> n equals a,t,g, or c

<400> 517

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tttacagcca atacaggttt aatcgatgtt caatattggt ttaggaaatt taaggccttc 180
taaatacata tagctctttc atgtctaaaa ccattttatg atattgccaa aatgtgatag 240
gaaacctact cattaaattg ttaaactttt taatgactat gtgaagatat gaattgtttc 300
ctgaagataa tactcttaat tgagttgtat tgtacttctt aggcaaagca gtgtaaaact 360
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gaatctgctg cttgttggtt cagtgtttct tatgaacaag agccacagta cagagcttca 480
agttatttaa aataactaagt catcttacgt ttccatttta ttaacgggat gttgcaatcg 540

```

440

```

tttgtaaact aataaactta taaagtgatt ggcacaaaga ctccttgagc aaaagctgtg 600
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aacaatggct tttaacattga aagattaata gaaactctac atatgttaat ttttttatag 720
aacctgactc aaatcaagggt actctccatt ttattgcctt acctgaatca gtcctttttg 780
gttggttaata gatttttttta tacaccacag tttgatttta aagtaaattc tagttcttaa 840
gcacttttaa caagaaatcc agaagcacat ttttctgcac aaacaagtta caaagttcaa 900
aagtgtttct tgtgcattag ctttgagatt cagtttttta ctttgtaaac cacatctgag 960
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agcagtaaat agattttctg gtattcttgt tcaacttgatt acatttgtat aaagttctga 1080
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taaaaaaaaa aaaaaaaaaa aaaagnagga aagaanag 1358

```

<210> 518

<211> 1368

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<400> 518

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agggaggagg aggcgagaag atggcggacg accccagtcg tgccgacagg aacgtggaga 180
tctggaagat caagaagctc attaagagct tggaggcggc ccgcggcaat ggcaccagca 240
tgatatcatt gatcattcct cccaaagacc agatttcacg agtggcaaaa atgttagcgg 300

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```

atgagtttgg aactgcatct aacattaagt cacgagtaaa ccgcctttca gtcctgggag 360
ccattacatc tgtacaacaa agactcaaac ttataacaa agtacctcca aatggtctgg 420
ttgtatactg tggaacaatt gtaacagaag aaggaaagga aaagaaagtc aacattgact 480
ttgaaccttt caaaccaatt aatacgtcac tgtattttgtg tgacaacaaa ttccatacag 540
aggctcttac agcactactt tcagatgata gcaagtttgg attcattgta atagatggta 600
gtggtgcact ttttggcaca ctccaaggaa acacaagaga agtcctgcac aaattcactg 660
tgatctccc aaagaaacac ggtagaggag gtcagtcagc cttgcgtttt gcccgtttaa 720
gaatggaaaa gcgacataac tatgttcgga aagtagcaga gactgctgtg cagctgttta 780
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aatctcattt cacagacaaa gaganccgga caggaaccat gascttatcg agagcatgsc 1260
cctktttgga awggkttgst aacaactwta aaaaattggg acttccttgg naaattggcc 1320
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```

<210> 519

<211> 933

<212> DNA

<213> Homo sapiens

<400> 519

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cattagagat ttcttctgga aaactggaaa caagataggg tttaaaccag caggaggcat 180
ccgcagtgca aaggattccc ttgcttggct ctctcttgta aaggaggagc ttggagatga 240
gtggctgaag ccagaactct ttcgaatagg tgccagtact ctgctctcgg acattgagag 300
gcagatttac catcatgtga ctggaagata tgcagcttat catgatcttc caatgtctta 360
aatcagtcac cagttccaga aaagtctctt acgacaatgt ttaaaaatta ttttctacg 420
taattgctaa aattatttaa ttaaaaaatt gggcagtagg taactggcat tcctctcttt 480
aaaatttcta ccgaacttaa tggaatggaa aaagcaaaact catccacatg tggactcat 540
ttcaggcaca tctgaaatga tcttaattac tagaagatct gcactattaa ctttgtgaag 600
agtttctcct aaaaacttta agtaaaatgt taatggtagc tttgataaca tcaaattcta 660
agggagaaaa aaacaatatt aaaccgccc aagcagtggtc cctagcagag gaaaatgcaa 720
catctcgcaa gcgctgctgt aacgacttca ggagtcactg attcagcact aatttcctgc 780
tgtgaaaact catctttcat ttttgccgtg gataggcgct tttattaatt gttgtcctaa 840
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<210> 520

<211> 1430

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1428)
<223> n equals a,t,g, or c

<400> 520
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c t g t c t c a g g a g a t g a a t t g a t g a c c c t g g c t c a t a a a c a c a t n n t c a a g a c t g t g g a t t 120
t c a c g c a g g a t a g t a a t t a t t g t t a a c c g g g g a c a g g a t a a a c t g t t a c g c a t a t a t g 180
a c t t g a a c a a a c c t g a a g c a g a a c c t a a g g a a a t t a g t g g t c a t a c t t c t g g t a t a a a a a 240
a a g c t c t g t g t g t c a g t g a g g a t a a a c a g a t t c t t t c t g c t g a t g a c a a a a c t g t t c g a c 300
t t t g g g a t c a t g c t a c t a t g a c a g a a g t g a a a t c t c t a a a t t t a a t a t g t c t g t t a g t a 360
g t a t g g a a t a t a t t c c t g a g g a g a t t t t g g t t a t a a c t t a t g g a c g a t c t a t t g c t t 420
t t c a t a g t g c a g t a a g t t t g a c c c a a t t a a a t c c t t t g a a g t c c t g c a a c c a t c a a t t 480
c t g c a t c t c t t c a t c c t g a g a a g a a t t t c t g t t g c a g g c g g t g a a g a t t t t a a a c t t t 540
a t a a g t a t g a t t a t a a t a g t g g a g a a g a a t t a g a a t c c t a c a a g g g a c a c t t t g g t c c t a 600
t t c a c t g t g t g a g a t t t a g t c c t g a t g g a g a a c t c t a t g c a g t g g t t c a g a a g a t g g a a 660
c a t t g a g a c t a t g g c a a a c t g t g g t a g g a a a a c g t a t g g c c t t t g g a a a t g t g t g c t t c 720
c t g a a g a a g a t a g t g g t g a g c t g g c a a a g c a a a g a t t g g t t t t c c a g a g a c a a c a g a a g 780
a g g a g c t a g a a g a a a t t g c t c a g a g a a t c a g a t t g c a t c t t t c c t t c a g c t c c t g a t g 840
t t a a g g c c t g a g c g t c a a t c a t a t g t t g c a g t t a g t a t a c a a c t g a c t a a a a c a a g c a a g 900
c a g a g a a a a g c a t c a g c c t t c c a g a g t t a c t g t c t g c t t a a g g c a g a a a c a g c a g t a a a t 960
a a t g a g g a a a a t g a a t t a g c t c c a g t g c t g g a a c a a c t a a c t a a c t t g g t g t t a c c t g t a 1020
a g t g a a a a c t c a a g t g t c a g a t g a a g g g a g g t g g a g t t a t c c t c t t a t a g t a c a g t g g c c 1080
t g t t a t c t t t t a a t g a a t a t a t a c a a g c c a a c a t c c a a t t t c t a t t a t t a c a a t t a g g g 1140
t t c t t g t a g c t g t t t a t g t t a a t a t g g a g a g a a a a c t a t a t t g g c t g a t t t t t c t g a t 1200
c t t a a a g c a g a a t g c c t t t t c t t t t t t t g c t t c a g t t g t a a a g a a g a g g g a a t a c a t g a t 1260
a a a g t a a c t g g t t t g a t t t c t c g t t c a t t g t a c a c t g c c t c t g a a c a t c t a a t t g t t t t t 1320
a g t t g t c t a a a t a a a a t g c c t c t a a a a c a 1380
a 1430

<210> 521
<211> 1169
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1166)
<223> n equals a,t,g, or c

<400> 521

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gagggggctt tggtagaccgt ggtggtcgtg gaggccgagg gggctttggc gggggccgag 180
gtcgaggcgg aggcctttaga ggtcgtggac gaggaggagg tggaggcggc ggcggcgggtg 240
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aatcagttta tggagagaag agagtctcga ttctggaagg agatgacaaa attgagtacc 480
gagcctggaa ccccttccgc tccaagctag cagcagcaat cctgggtggt gtggaccaga 540
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cccatgtctc tgacatcggt ggtccggatg gtctagtcta tgcagtcgag ttctcccacc 660
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aggatgctcg acacccacac aaataccgca tgctcatcgc aatggtggat gtgatctttg 780
ctgatgtggc ccagccagac cagaccgga ttgtggccct gaatgcccac accttccctgc 840
gtaaatggagg acactttgtg atttccatta aggccaaactg cattgactcc acagcctcag 900
ccgaggccgt gtttgcctcc gaagtgaana agatgcaaca ggagaacatg aagccgcagg 960
agcagttgac ccttgagcca tatgaaagag accatgccgt ggtcgtggga gtgtacaggc 1020
caccccccaa ggtgaagaac tgaagttcag cgctgtcagg attgcgagag atgtgtgttg 1080
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argggggggcc gctaggggnt ccaagntta 1169
```

<210> 522

<211> 2162

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2139)

<223> n equals a,t,g, or c

<400> 522

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gccgggcatg gggcgcgcg cagccgctga agccccggcc tggccccgnc gcacccggcc 180
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<210> 523

<211> 799

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<400> 523

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ctttgtaaag tcctgtaaga tcctgtctcc ttgcatga cgctgcaagg tcataaagta 180
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aattgccttt gtttctcgct ttggtaacat cttcccgct caggtatttc ccgccttgaa 300
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aagaacctca ggtgttacat cttggcgagc cagacaggag actccagaaa aggatcaaag 540
ccatcaagct acaaatratc ttacaaatgg aacctcaaat gagctcagct cacggcttct 600
accgaggacc cctggwtcaa cccgctggtc cctcaattac cctagaaaat tccccctctgg 660
aggacaccaa actgcagggc cccttyttca cccctaacca gcaggaagta gccagaacgg 720
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gaggtgcccc attgggttt 799

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<210> 524

<211> 1722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 524

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tctggggcgg ctgagttctg cgggtgccag gagtggagca gagctcagcc ccgtcccaaa 120
yacagatggg accatgaact ccggacacag cttcagccag accccctcgg cctccttcca 180
tggcgcggga ggtggtggg gccggcccag gagcttcccc agggctccca ccgtccatgg 240
cgggtgcggg ggagcccga tctccctgtc ctaccacag cggagctgcc caccctctgg 300
agggctcttg ggttctggaa gaagcagccc cctactaggc ggaaatggga aggccaccat 360
gcagaatctc aacgaccgcc tggcctccta cctggagaag gttcgcgccc tggaggaggc 420
caacatgaag ctggaagacc gcatcctgaa atggcaccag cagagagatc ctggcagtaa 480
gaaagattat tcccagtatg aggaaaacat cacacacctg caggagcaga tagtggatgg 540
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yttcaacctc aagwtgaaa atgaacactc ctttaaaaaa gacttggaaa ttgaagtcga 660
gggcctccga aggccttag acaacctgac cttgtcaca acagacctag aacaggaggt 720
ggaaggaatg aggaaagagc tcattctcat gaagaagcac catgagcagg aaatgggaa 780
gcatcatgtg ccaagtgact tcaatgtcaa tgtgaagggt gatacaggtc ccagggaaga 840

```

```

tctgattaag gtcctggagg atatgagaca agaatatgag cttataataa agaagaagca 900
tcgagacttg gacacttggt ataaagaaca gtctgcagcc atgtcccagg aggcagccag 960
tccagccact gtgcagagca gacaagggtga catccacgaa ctgaagcgca cattccaggc 1020
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gctgctgggc atcaaaaaccc acctggagaa ggaaatcacc acgtaccgac ggctcctgga 1260
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```

<210> 525

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 525

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tcccggggccc gagggcatca gacggcggct gattagctcc ggttttgcac acccggaccg 60
ggggattagc tccggtttgc atcacccgga ccgggggatt agctccgggt tgcacacccc 120
ggaccggggg ccgggcgcgc acgagactcg cagcgggaagt ggaggcggct ccgcgcgcgt 180
ccgctgctag gaccggggca gggctggagc tgggctggga tcccagactc ggcagcagcg 240
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cacgcggaac gacggggcga gatgcgagcc acccctctgg ctgctcctgc gggttccctg 360
tccaggaaga agcggtttga gttggatgac aacttagata ccgagcgtcc cgtccagaaa 420
cgagctcgaa gtggggccca gccagactg cccccctgcc tgttgccctc gagccacct 480
actgctccag atcgtgcaac tgctgtggsc actgntcccc gtyttnggsc ctatgtccty 540
ctkgaagccc gaagaanggc gg 562

```

<210> 526

<211> 2023

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<400> 526

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aaagtataa cncaactaat ggttgtggac ttgaatctyc aggaaatact gttacacctg 60
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tggagaaatt atttcaaggt cagctggtat taaggacgcg ttgcttgga tgtgaaagtt 180
taacagaaag aagagaagat tttcaagaca tcagtgtgcc agtacaagaa gatgagcttt 240
ccaaagtaga ggagagttct gaaatttctc cagagccaaa aacagaaatg aagaccctga 300
gatgggcaat ttcacaattt gcttcagtag aaaggattgt aggagaagat aaatatttct 360
gtgaaaactg ccatcattat actgaagctg aacgaagtct tttgtttgac aaaatgcctg 420
aagttataac tattcatttg aagtgccttg ctgctagtgg tttggagttt gattgttatg 480
gtggtggact ttccaagatc aacactcctt tattgacacc tcttaaattg tctactagaag 540
aatggagcac aaagccaact aacgacagct atggattatt tgcggttgatg atgcatagtg 600
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cattgaatga ggaggaagca aggggtgtgg ttgagaatta taatgatgaa gaagtgtcaa 780
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ttggacttct tggaggacaa aagagcaaag cagattatga gctatacaac aaagcctcta 900
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tacttgtata tttttataaa tacagctgag ttttcttaaa gcg 2023

```

<210> 527

<211> 2847

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2842)

<223> n equals a,t,g, or c

<400> 527

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tgtaaattggt cttttaatta attaaaaaga aattagtcag ctacaagcat gaacatgtgg 180
aacgcttacc tttgtactag gcgtttttgt ttttgtttta atggcttttg gaatattata 240
gtattaacat ctggaaaact aggtaaatth atcttagaat taagtntttn gctccttttt 300
tgcagaaaaa gaacagcaag aagcgattga acacattgat gaagtacaaa atgaaataga 360
cagacttaat gaacaagcca gtgaggagat tttgaaagta gaacagaaat ataacaaact 420
ccgccaaacca ttttttcaga agaggtcaga attgatcgcc aaaatcccaa atttttgggt 480
aacaacattt gtcaaccatc cacaagtgtc tgcactgctt ggggaggaag atgaagaggc 540
actgcattat ttgaccagag ttgaagtgtc agaatttgaa gatattaaat cagggttacag 600
aatagatttt tattttgatg aaaatcctta ctttgaaaat aaagttctct ccaaagaatt 660
tcacttgaat gagagtgggt atccatcttc gaagtccacc gaaatcaaat ggaaatctgg 720
aaaggatttg acgaaacgtt cgagtcaaac gcagaataaa gccagcagga agaggcagca 780
tgaggaacca gagagcttct ttacctgggt tactgacct tctgatgcag gtgctgatga 840
gttaggagag gtcacaaaag atgatatttg gccaaaccca ttacagtact acttggttcc 900
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ctactccatg gttctcaatt tatttggggg gaaataacct gagcagaata caatgggaaa 1260
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gtattaatat ctccatagct gggaaacgtg ggttcaattt gccattgggt tctgaaagta 2160
ttcacatcat ttgggatacc agatagctca atactctctg agtacattgt gcccttgatt 2220
tttatctcca agtggcagtt tttaaaattg gcctttttacc tggatataaa ttaattgtgc 2280

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ctgccaccac catccaacag acctgggtgct ctaatgccaa gttatacacg ggacagttgc 2340
tggcatgtct tcattggcta tataaaatgt ggccaagaag ataggctctc agtaagaagt 2400
ctgatgggtga gcagtaactg tccctgcttt ctggtataaa gctctcaa atgtgacatgt 2460
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ccctaatagca taagcttttt aatgctgtaa aatatagtcg ctgaaattaa atgccacttt 2580
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tgataaatgg aactattcca tcaataggca aaagtgtaac aacctatcta gatggatagt 2700
atgtaatttc tgcacaggtc tctgtttagt aaatacatca ctgtataaccg atcaggaatc 2760
ttgctccaat aaaggaacat aaagatttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
aaaaaaaaaa aaaaaaaaaa anaaaaa 2847

```

<210> 528

<211> 816

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 528

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aaaacgantg tgtaattaac anaggctgtg cgcatgaacg ttgccgttat ggttcgcgaa 60
ttttccccgg cgcccaatgc gagggagacg aaantatgta aatgagtggg ttctggctga 120
gctatcctat tggtatcgg gacaaaattt gcttgagcca atccaaagtg ctccgtggac 180
aatcgccgtt ctgtctataa aaagggtgaag cagcggcggtt ttcggcgact ttcccgatcg 240
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gaggcaaggc ccgcgccaaag gccaaagtcgc gctcgtcccg cgttggcctt cagttcccgg 360
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ccgtctacat ggctgcggtc ctcgagtatc tgaccgccga gatcctggag ctggcgggca 480
acgcggctcg ggacaacaag aagacgcgca tcatccctcg tcacctccag ctggccatcc 540
gcaacgacga ggaactgaac aagctgctgg gcaaagtcac catcgcccag ggcggcgtct 600
tgccatacat ccaggccgta ctgctcccta agaagacgga gagtcaccac aaggcaaagg 660
gcaagtgagg ctgacgtccg cccaagtggc ccagcccggc ccgcgtctcg aaggggcacc 720
tgtgaactca aaaggctctt ttcagagcca cccacgtttt caaataaaaag agttgttaat 780
gctggcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 816

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<210> 529

<211> 885

<212> DNA

<213> Homo sapiens

450

<400> 529

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cccgcggtct tctctgcaaa tggggtccgt ggcctagcgc ccccggtccc gccacccgtg 120
atcgtgcgcc gagggccgcg aggggtcgcc gccagatcc caccagccag caagctaaag 180
catggcggcc atccccctcca gcggtctcgt cgtggccacc cagactact accggcgccg 240
cctgggttcc acttccagca acagctcctg cagcagtacc gagtgtcccg gggaagccat 300
tccccacccc ccaggtctcc ccaaggctga cccgggtcat tgggtggcca gcttcttttt 360
cggaaggtcc accctcccggt tcatggccac ggtgttgag tccgcagagc actcggaacc 420
tccccaggcc tccagcagca tgaccgcctg tggcctggtt cgggacgccc cgaggaagca 480
gcccggcggt cagtccagca cagccagcgc tgggcccccg tcctgacctg agcgggttacc 540
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ctccgcatcc ctgcgtccccc tccccacctc ccacccccca ccctgtaaag taggcggctg 660
cagcaagcag accttcgcac caacacagca gacacaaaaa accagtgaga gccccgctct 720
ctaccgcccc gcccagcac tcgctagctt tcctgacacc tggaactgtg cacctggcac 780
caagcggaaa ataaactcca agcagccagt agccccgatg gtgtgtgcct gagctgtgtg 840
gcccgagggt ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 885
```

<210> 530

<211> 742

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (715)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (741)

<223> n equals a,t,g, or c

<400> 530

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ggtacctgac agtaccggtc ggaattcccc ggtcgaccca cgcgtcogct gctgctctta 60
aaggtagagg cctcagggtc cctgctgtag acggggcggg ggagagtacg atgggtgggg 120
```



```

cgtggtgggt cgtagggcgc tcgagatgga gccccagct tccttgatgg atcgcggggc 180
gcgagtggcc tagacaagcc ggagctggga ccggcaatcg ggcgttgatc cttgtcacct 240
gtcgcagacc ctcatccctc ccgtgggagc cccctttgga cactctatga ccctggaccc 300
tcgggggacc tgaacttgat gcgatgggag gctgtgcagg ctcgcgggcg cgcttttcgg 360
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cgcattggaa gaacgcggtg ggcttctggc tgctgggcct ttgcaacaac ttctcttatg 480
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gccatgtgga cccaggccca acgccgatcc cccacaacag ctcatcacga ttgactgca 600
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```

<210> 531

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 531

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cgarcctcgg gtggtcctca gggaggggtct ctcggccaga acacgtggat gccacccac 120
cactgagcct catggagggt gtaacatttg gcgatgtggc tgtgcacttc tctcgggagg 180
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tggagcaggg agaagagcca tgggtcctcg acctgcargg agcagagggg acagaggcac 360
caargacctc caagacaggt gaggcttaga tcccatcgca gagaagccct ggggtgarga 420
gaaactkcar gaggggctca caactgtrgg tagctgtagg tgartcgcgg gggctacact 480
kggatgcctg ggaatgctac tnggggaaan cagcatccaa canct 525

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<210> 532

<211> 1925

<212> DNA

<213> Homo sapiens

<400> 532

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gtggtctgag gccggtacag ctgcgcgtct gcgggaatag gtgcagcggg cccttggcgg 60
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```

```

aagatggact ctactctaac agcaagtga atccggcagc gatttataga tttcttcaag 180
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ctctttgcca atgcaggcat gaaccagttt aaacccattt tcctgaacac aattgacca 300
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attaagaaag gagacaagtt ccatgggata caacctccct cttgttttgt ttgtctctcc 1800
ttttcttttg ttactgttct tgctgctaga acttttttaa ataaactttt tttcaatgtg 1860
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg 1920
ggggg                                           1925

```

<210> 533

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (487)

<223> n equals a,t,g, or c

<400> 533

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cgcccgccg gtcagcagcg cggccagcgt ctatgcaggc gctgggggct ctggttcccg 240
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cgggatagcc gggggtctgg caggaatggg agcatccaga acgagaagga gacctgcaa 360
aagctgaacg accgcctggc ctcttacctg gacaaaatga aggagcctgg agaccgagaa 420
accggaggct ggaaagcaaa aaccggggag cactttggag aagaagganc ccaggtcaga 480
gntcgnnagc cattaattca ag                                     502

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<210> 534

<211> 1800

<212> DNA

<213> Homo sapiens

<400> 534

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<210> 535

<211> 2497

<212> DNA
<213> Homo sapiens

<220>
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<222> (2467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2493)
<223> n equals a,t,g, or c

<400> 535
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aacatcatat ttgatacaca cgtttttatt tgcacaaaga aaatgctrtt tttggagcca 1920

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<210> 536

<211> 4090

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2475)

<223> n equals a,t,g, or c

<400> 536

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ccgccattac ctgtacaccc gaaataagcc ggccgactac ttcacctca tctgcagg 720
gaaggtggag gtggaggcag ggaaggagaa catgaagttt gagacggg 780
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457

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agcttgatcc aaaagtatga gtaatatgtg tttataacat gcagctgcct tttcgtccac 3960
acctacaggc tagtggtttc aaagttggag tgttcatccc ttgaagaacc tgagttacgt 4020
cactataccc actctcaaag ttgcagctct gcaggggact cccatgggtgc tgtacaggtg 4080
ctactctgcc                                     4090

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<210> 537

<211> 586

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<400> 537

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gcaaactccg cggcccgcaa gcccggtctg gcccgggcct gctctgttct gcccgagga 180
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gtggatcagc gtcgccaggg tctgggaaat ttctcagaa aagtcctaca gatgcacttt 540
tgctttcaga tagcagcctt cacctcttcc ttacagagcc atctga 586

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<210> 538

<211> 1250

<212> DNA

<213> Homo sapiens

<400> 538

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ttggagtcgc ccggacctga gaggtgctg cactgggcct cagccagccc tccggatgct 180
ggtgctgcca tccccctgcc ctacagcctt ggcattttcc tccgttgaga ccatggaggg 240
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ccagaaaaag tgctacagct gcccgcgtgt ctcaagggtc ttcgagtaca tgtcctacct 480
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tatggagcag aacacactgc agaaacacac gcggtggaag catccatgag ccgggctgcc 780
gggtgccccca ggtaccacag gactttgcag ggagcctgga ctctgtcca gacacctggt 840
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gctgagatgg gaatgagccc ctacacagaa tggagtcctc tagcctaaag atatcagctg 1020
ttccatggca gagccttgac tggatggagg tggggagtgt ggtgtgtaaa gtctctggcc 1080

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458

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tcataaaaagg tggctgtggg tcgtcaggaa tctgcgccat cttcctgggg cttctgcgct 1140
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<210> 539

<211> 1350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1349)

<223> n equals a,t,g, or c

<400> 539

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aaaaggcgcg ccgccccaga gganccccng 1350

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<210> 540

<211> 2509

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<400> 540
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<210> 541

<211> 1743

<212> DNA

<213> Homo sapiens

<400> 541

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<210> 542

<211> 2210

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 542

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<210> 543

<211> 1715

<212> DNA

<213> Homo sapiens

<400> 543

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<210> 544

<211> 3109

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1011)

<223> n equals a,t,g, or c

<400> 544

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<211> 1176

<212> DNA

<213> Homo sapiens

<400> 545

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<210> 546

<211> 1735

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<400> 546

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465

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<210> 547

<211> 1048

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1043)

<223> n equals a,t,g, or c

<400> 547

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<210> 548

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (724)
 <223> n equals a,t,g, or c

<220>
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 <222> (727)
 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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<210> 549
 <211> 2231
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2224)
 <223> n equals a,t,g, or c

<400> 549
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<210> 550

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 550

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<210> 551

<211> 2610

<212> DNA

<213> Homo sapiens

<400> 551

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<210> 552

<211> 4021

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4000)

<223> n equals a,t,g, or c

<400> 552

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<210> 553

<211> 1780

<212> DNA

<213> Homo sapiens

<400> 553

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<210> 554

<211> 3713

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3006)

<223> n equals a,t,g, or c

<400> 554

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<210> 555

<211> 1997

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1980)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1992)

<223> n equals a,t,g, or c

<400> 555

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<210> 556

<211> 906

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (879)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (906)

<223> n equals a,t,g, or c

<400> 556

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ttgatgtaaa atccttgtcat gtgtataaaa ataaaaaaga tcccaaataa aaaaaaaaaa 840
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<210> 557

<211> 3484

<212> DNA

<213> Homo sapiens

<400> 557

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<210> 558

<211> 790

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<400> 558

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477

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<210> 559

<211> 558

<212> DNA

<213> Homo sapiens

<400> 559

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<211> 3043

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<223> n equals a,t,g, or c

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<210> 562

<211> 1386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<400> 562

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<210> 563

<211> 2638

<212> DNA

<213> Homo sapiens

<400> 563

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<211> 691

<212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <222> (650)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (653)
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<210> 565
 <211> 1967
 <212> DNA
 <213> Homo sapiens

<400> 565

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<211> 1334

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (1307)

<223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>
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 <222> (1312)
 <223> n equals a,t,g, or c

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 <211> 1610
 <212> DNA
 <213> Homo sapiens

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```

<210> 568

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1018)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1037)

<223> n equals a,t,g, or c

<400> 568

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ctaaagtttc ttcttttgat ttcttgacag tatgatttag taaatgaaat ttgaccaaata 180
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gggaaaagtg acttttagatt atgaactcaa ttcaaatgaa ctctatttaa aatgggggtcc 420
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gctttggctt aaaagggata cagtatatta attacatctt ttattattat tgtttatttc 540
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catttttctt attacagcct ttgagacagc tggttaattat aagtcatttt ccatttttta 660
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tacaaagaca ccatttgttt tttatttcat tctttgkttt aactcatgtg gtagtgatat 960
ttaatacttt ctgatcaaac aggttcaaag taaaacgtta aatttcacat ttcttttnaa 1020

```

```

agaactctta aagtgtgtnaca gttacgccat acttcataag tggtaaagaa aggtataaaa 1080
tttggaacaa ttttggttggg catagtagtg attgggtgaa aaggataaat tatatcaaaa 1140
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tttgataatt ttttataaaa aaaaaaaaaa ag 1412

```

<210> 569

<211> 1125

<212> DNA

<213> Homo sapiens

<400> 569

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gccatggcta gtcagtctca ggggattcag cagctgctgc aggccgagaa gcgggcagcc 180
gagaagggtg ccgaggcccg caaaagaaag aaccggaggc tgaagcaggc caaagaagaa 240
gctcaggctg aaattgaaca gtaccgcctg cagagggaga aagaattcaa ggccaaggaa 300
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aagagagaag cacctgtgct gtggagtggc attttagatg ccctcacgaa tatgaagctt 540
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```

<210> 570

<211> 1916

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1899)

<223> n equals a,t,g, or c

<400> 570

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catccatcta tccactccct gcgcgcctc ctcccacct gagcagagcc gccgaggatg 180
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aggcacattg ttccagggcc tctgtggtgc tcctgatgcc cctcacccac tgtcgaagat 300
ccccggtggg cgagggggcg gcagggatcc ttctctctca gctctaatat ataaggacga 360

```

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gaagctcact gtgaccagc acctccctgt gaatgatgga aaacctcaca tcgtccactt 420
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cctgtttgta gaaatcccag atggattatt agctgatggg agcaaagaag gattgttagc 540
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gattgggtga gggggacggg gatgtcaggg aggcaagtgt gttgtgttac tgtgtcaata 1860
aactgattta aagttraaaa aaaaaaaaaa aaaaactcng rgggggctgt atagtgt 1916

```

<210> 571

<211> 1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1212)

<223> n equals a,t,g, or c

<400> 571

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aggaccggga atgaagacga aggcgctcac cattaaatcg tacggctcgc actgccccct 120
gcccgcagtc cagcgctctc aaccgtttct gcggcagctc tggaggccgc ggctttggct 180

```

```

cagggaaagc catgctccca ggactccttc cttgcagcct taaatcggtc tgtacggaaa 240
attccgcgcc ttagaaaccc acgcttgggt gtaaccttat tattgttctt cctgacctac 300
ttcctgttta tcacttccgg gttcatcatt ttggcatttc ggtgatcggg ttggaactat 360
tgaagcccgc tttcaggttc ttttcccat tttccctttg aaaggaagac ttctggcttc 420
tcctaaatct ccgttctctg ggtaagggga gtccaagcct ctgtcatgag gaacggaaat 480
gogagggcct cgggtgttac tctaaaatcc gccctcagct tgcacgcggg aagctgcgat 540
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```

<210> 572

<211> 2013

<212> DNA

<213> Homo sapiens

<400> 572

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caccctccca gagaactcct tgaggagaac aagtgcctt ggggacagcc ggcakgcgcc 180
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488

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gttcacggga aacaagcctg agtccgctcg caccgcgggc tgctctcccg gctcggcccg 1620
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attttgaatt tttcttattt ggttgaaaga attttgattc tatcagcctg agtgagttca 1920
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```

<210> 573

<211> 669

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (631)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<400> 573

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cttcctctcc cttttttcct tcttccttcc cctcctcgcc gccaccgcc aggaccgccg 180
gccgggggac gagctcggag cagcagccag agtttattaa ccacttaacc tctcagaact 240
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ccaaagcggg tgaggatcct gcagaatgag cccctggcag aagagggctg aggtgaaagg 600
aagagaatcc gaagaagaaa actcaataaa nctgaaanaa agcaaggggt tgagatgcct 660
taaacggga 669

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<210> 574

<211> 2432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2326)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2367)

<223> n equals a,t,g, or c

<400> 574

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aaaaaaaaaa aaagggsggc cgctctaaaa gatccaaggg gccaanctta cccttgcatg 2340
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aaaacttctg aatggaaatt gctacttggg at 2432

<210> 575

<211> 1372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1370)

<223> n equals a,t,g, or c

<400> 575

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<211> 2020

<212> DNA

<213> Homo sapiens

<400> 576

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<211> 3161

<212> DNA

<213> Homo sapiens

<400> 577

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<210> 578

<211> 2046

<212> DNA

<213> Homo sapiens

<400> 578

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<211> 302

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
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<220>
<221> misc feature
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<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<222> (457)

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<400> 581

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aaaaaagggc ggcc 1574
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<210> 582

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (924)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (937)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (939)

<223> n equals a,t,g, or c

<400> 582

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<210> 583

<211> 541

<212> DNA

<213> Homo sapiens

<400> 583

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cgggctycty caacctgtgg gtcccctcca tccactgcaa actgctggac atcgcttgct 480
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<210> 584

<211> 2968

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1437)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2961)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2964)
<223> n equals a,t,g, or c

<400> 584
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aaaaacaaaa aaaaaaaaaa nagnagag 2968

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<210> 585

<211> 2608

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 585

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500

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<210> 586

<211> 1893

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1184)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1883)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1893)

<223> n equals a,t,g, or c

<400> 586

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cggagcccg cgcgtagagg tgcaatcgca gccgggagcc cgcagcccgc gccccgagcc 180
cgccgccgcc cttcagaggg gccccaggcc gcgccatggt gaaggtgacg ttcaactccg 240
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<210> 587

<211> 2463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2413)

<223> n equals a,t,g, or c

<400> 587

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<210> 588

<211> 1945

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1939)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1945)

<223> n equals a,t,g, or c

<400> 588

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<210> 589

<211> 816

<212> DNA

<213> Homo sapiens

<400> 589

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<210> 590

<211> 2307

<212> DNA

<213> Homo sapiens

<400> 590

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<210> 591
 <211> 1438
 <212> DNA
 <213> Homo sapiens

<400> 591
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<210> 592
 <211> 1078
 <212> DNA
 <213> Homo sapiens

<400> 592
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<210> 593

<211> 2492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2452)

<223> n equals a,t,g, or c

<400> 593

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<210> 594

<211> 1904

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1893)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1903)

<223> n equals a,t,g, or c

<400> 594

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<210> 595

<211> 337

<212> DNA

<213> Homo sapiens

<400> 595

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cttcagcrgt tcccaggctc cctacctgag tccagctgtc cccttttctg ggactattca 180
aggaggtctc caggacggac ttcagatcac tgtcaatggg accgttctca gctccagtgg 240
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<210> 596

<211> 1288

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1287)

<223> n equals a,t,g, or c

<400> 596

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gtataaatgt tgtataaaat tcttttacag ctacagattt ttaaatagga tcattgtaar 1140
gattaatgag ataatgtttt aacatagtgc ctgggtccat gataagtgtt aaatttttca 1200
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ttgatcccag ctctatacta ccntngna 1288
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<210> 597

<211> 1052

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (937)

<223> n equals a,t,g, or c

<220>

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<222> (943)

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<220>

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<223> n equals a,t,g, or c

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<221> misc feature

<222> (1004)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1040)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1051)

<223> n equals a,t,g, or c

<400> 597

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accccaaata aggaagattg tggatcaaat aagacctgat aggcaaactc taatgtggag 180
tgcgacttgg ccaaaagaag taagacagct tgctgaagat ttcctgaaag actatattca 240
tataaacatt ggtgcacttg aactgagtgc aaaccacaac attcttcaga ttgtggatgt 300
gtgtcatgac gtagaaaagg atgaaaaact tattcgtcta atggaagaga tcatgagtga 360
gaaggagaat aaaaccattg tttttgtgga aaccaaaga agatgtgatg agcttaccag 420
aaaaatgagg agagatgggt ggccctgccat ggggtatccat ggtgacaaga gtcaacaaga 480
gcgtgactgg gttctaaatg aattcaaaca tggaaaagct cctattctga ttgctacaga 540
tgtggcctcc agagggctag atgtggaaga tgtgaaattt gtcatacaatt atgactaccc 600
taactcctca gaggattata ttcacgaat tggagaagact gctcgcagta ccaaaacagg 660
cacagcatac actttcttta cacctaataa cataaagcaa gtgagcgacc ttatctctgt 720
gcttcgtgaa gctaatacaag caattaatcc cmagttgctt cagttggctg aagacagagg 780
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tagcctgctt aaaagagatt ttggggcaaa aactcanaat ggnggttaca gtgcttgcaa 960
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<210> 598

<211> 2093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (969)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1422)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1481)

<223> n equals a,t,g, or c

<400> 598

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gcacccatgc acacacctac gcacacacaa cactccgcac tgcagtatat tcttgccaaa 180
gatttccttt aaaagcaagc acttttacta attattattt tgtaaatgtt tatcttcttc 240
tgtcttctcc ctccctgaat ctattttact gttgtttatt gttgaatctg tgtgtcagcc 300
aggagagcgc tgtctggcct tgaacatggg ctgggatggg aaagggctct ggagaagatg 360
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cccgtgtctc caccagctgt ccagctgggt gtctggaggg aagagggcag aggagggcca 480
tgtcccttca gctgggggag gggcccagtg agctccacgt ggctttttcc caaagggagc 540
aagagggaa gattgggcga gaaaacaatg gagaggggac ctgcgaagga aaacagggag 600
gaagtgcgag gtttgatcag cctgctatca cgggtgtctg gctctcttat ttagccaggc 660
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ctcctgtaca gctgctttgt ttctttgcaa tgcattgtat ggctttataa atgataaagt 2040
taaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2093
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<210> 599

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (349)

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<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

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<222> (524)

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<222> (549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 599

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cgaggtctca ctatgccag gttggtctca aactcctgtg ctcaagcaat cctcccatct 180

tggctcccta agtgctggga ttataggcat gagccaccgt gcccggcctc atgtctgcat 240
gttaaaagtt ctgagaattc ctatggaaaa taaatttgac ttgtcttaat gcagttcctc 300
taaacttact taattccttt ttcttttttt ctttactatt tattaattnt tctcttttct 360
cagaccttgc agggatgaaa ggnccccttt tctcaaaacc ctcttatgat ctctacactc 420
tgcaagggct tctgaangac agcangctga gaaaggccga tcttaacact tanctctttg 480
aagacacttt taaaactggg aacagtattt atagctttaa aagnacccat gggtcttaag 540
gcccgttant aaaaaaaaaa nn 562

<210> 600

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

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<222> (11)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<220>

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<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<400> 600

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gccgctctag aactagtgga tcccccgggc tgcaggaatt cggnacgagg gaggctgagg 120
ctggagtgca gtggtgtgat ctcggtcac tgcaacctct gcctcccagg ttccagcaat 180
tctcctgcct cagcctccct agtggctggg atgacaggcg cctgccatca tgcctgacta 240
gtttttgtat ttttagtaga gacggcgttt caccatgttg gccaggctgg tctcaaactc 300
ctgacctcag gtgatccgcc tacctcagcc tcccaaagtg ctgggattac aggcgtgata 360
caccacacct ggcccttgca atcttctact ttaaggtttg cagagataaa ccaatanatc 420
cacaccgtac atctgcaata tganttcaag aaaggaanta gtaccttcaa tacttaaaaa 480
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<210> 601

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

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<220>

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<222> (191)

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<220>

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<222> (199)

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<220>

<221> misc feature

<222> (212)

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<220>

<221> misc feature

<222> (218)

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<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

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<220>

<221> misc feature

<222> (302)

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<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<400> 601
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atattttgcg agtactcaac accaaccatcg atggggggcg gaaaatagcc tttgccatca 120
ctgccattaa ggggtgtgggc cgaanatatg ctcatgtggn gttgaggaaa gnanacattg 180
acctnaccaa nagggcggnna gaactcactg angatgangt ggaacgtgtg atcaccatta 240
tgcagaatcn acgccagtac aagatcccag actggttctt gaacagacag aatgatngta 300
angatnaatc tacttcaagc taacatgcta tcatttctac nttgagtact gctaagggtt 360
ctttccacaa cttgtacaca atgtttattna ctgcccagtt tataatttcc ctnttggttc 420
ccattttaag acttatttaa ttantatgcn ttttaaattt ttgagacntg ataga 475

<210> 602
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<400> 602

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cctgtccctg gactctggaa tgtntggctg aagttgaggn tctcttactc tctaggccac 120
ggaattaacc cgagcaggca tggaggcctc tgctctcacc tcatcagcag tgaccagtgt 180
ggccaaagtg gtcagggtgg cctctggctc tgccgtagtt ttgcccctgg ccaggattgc 240
tacagttgtg attggaggag ttgtggccat ggcggtctgtg cccatggt 288

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<210> 603

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 603

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gacttggtgtt gggactgctg ataggaagat gtcttcagga aatgctaaaa ttgggcaccc 120
tgcccccaac ttcaaagcca cagctgttat gccagatggt cagtttaaaag atatcagcct 180
gtctgactac aaaaggaaaa tatgttgtgt tcttctttta ccctcttgac ttcacctttg 240
tgtgccccac ggagatcatt gctttcagtg atagggcaga agaatttaag aaactcaact 300
gccaagtgat tgggtgcttct gtggattctc acttctgtca tctagcatgg gtcaatacac 360
ctaanaaaca aggaggactg ggacccatga acattccttt ggtatcanac ccaacncaca 420
nttgntcagg at 432

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<210> 604

<211> 371

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<400> 604
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agagaagagt tgggttaaaaa ccttggtacc atagccaaat ctgggacaag cgagttttta 120
aacaaaatga ctgaagcaca ggaagatggc cagtcaactt ctgatttgat tggccagttt 180
ggtgtcgggtt tctattccgc cttccttgta gcagataagg ttattgtcac ttcaaaacac 240
aacaacgata cccagcacat ctgggagtct gactccaatg anttttctgt naattgctga 300
cccaagaggg aaacactcta ggacggggga acgacaattt acgtggagta tggaccaatt 360
tccttattaa g 371

<210> 605
<211> 392
<212> DNA
<213> Homo sapiens

<220>
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<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<400> 605
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ctttcaggat taagcgattc ctggccaaga aacaaaagca aaatcgtccc attccccagt 120
ggattcggat gaaaactggg aaataaaatc aggtacaact ccaaaaggag acattggaga 180
agaaccaagc tgggtctatg aaggaattgc acatgagatg gcacacatat ttatgctgtc 240
tggaagggtgc acgatccatg ttaccatatg caagctggaa aatgtgcacc antatctggg 300
agatttttga cgtgtttttc cncctctggan nctgttttatg gnacaagggt ggtttggttt 360
ggntccatta aattaaatta ggtaaaggcc cc 392

<210> 606
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (255)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<400> 606
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agcggggcccg gcctgcggag gtgggcggca tgcagctccg ctttgcccgg ctctccgagc 120
acgccacggc ccccacccgg ggctccgcgc gcgccgcggg ctacgacctg tacagtgcct 180
atgattacac aataccacct atggagaaag ctggtgtgaa aacggacatt cagatagcgc 240
tcccttctgg gtgtnatgga agagtggctc cacggtcagg cttggctgca aaacacttta 300
ttgatgtagg antgggtgtca tagatgaaga ttataagagg aatgttggtg ttgtactgtt 360
taatttttngg caagaaagtt tgaagtcaaa aaagggtgatc gaattgcaca gtcatttgca 420
acggattttt tatccagaaa ta 442

<210> 607
<211> 182
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 607

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agaaagtggg tgatccattt ttaagaaaag attggtatga tgtgaaagca cctgctatgt 120
tcantataag anatattgga aagacgctcg tcaccaggac ccaaggaacc aaaattgcat 180
ct 182
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<210> 608

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (604)

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<222> (627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 608

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atcaccacag gactattcct agccatgcac tactcaccag acgcctcaac cgccttttca 180
tcaatcgccc acatcactcg agacgtaaat tatggctgaa tcatccgctg ccttcacgcc 240
aatggcgct caatattcct tatctgcctc ttcctacaca tcgggcgagg cctatatattac 300
ggatcatttc tctactcaga aacctgaaac atcggcatta tcctcctgct tgcaactata 360
gcaacagcct tcataggcta tgtcctcccg tgaggccaaa tatcattctg aggggccaca 420
gtaattacaa acttactatc cgccatccca tacattggga cagacctagt tcaatgaatc 480
tgaggaggct actcagtaga cagtcccacc ctcacacgat tctttacctt tcaacttcac 540
ttgcccttca ttattggcag ncctacagna ctcacctcta ttttttgccg aaacgggggat 600
canncaaccc ccttagggaa tcacctnccn tttccgataa aaatcaacct tncacccttt 660
actacacaat cat 673
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<210> 609

<211> 553

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 609
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aaacttttgg acgacaatgg gaacattgct gaagaactga gcattctcaa atggaacaca 120
gacagtgtag aagaattcct gagtgaagag ttggaacgca tataaatctt gcttaaattt 180
tgtcctatcc ttttggtacc ttatcaaag aaatattaca gcacctagaa aataatttag 240
ttttgcttgc ttccattgat cagtctttta cttgaggcat taaatatcta attaaatcgt 300
gaaatggcag tatagtccat gatatactag gagttggcaa gcttaacaaa acccattttt 360
tataaatgtc catcctnctg catttggtga taccactaac aaaatgcttt gtaacagact 420
tgcggttaat tatgcaaatg atagtttgng ataattgggg ccaagtttta cgaacaacag 480
atttctaaat tagaganggt taccaggaca gatgatacta tgcctaaggg ctgggngccc 540
ttttnaagga aga 553

<210> 610
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
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<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
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<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (316)
<223> n equals a,t,g, or c

<220>
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<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<400> 610
accacgcgct cgggctnncc gatgagacca atatatgcaa tggtaagcca gtagatggac 60
tgactacttt ggcgaatggg acattagttg cattccgagg tcattatttc tggatgctaa 120
gtccattcag tccaccatct ccagctcgca gaattactga agttttgggg aatcctttcc 180
cccattgata ctgttttact aaggggaatt tttcnagaaa aggtngcagc attcagcagt 240

524

```

atattttataa acaggaacct gtacagaagt gcccttgga naaggcctgc tctaaaatta 300
tccagtggta tngngnaacg acacagggtta agagacgtcg cttnaacgtg ctaaaaggac 360
ctttccaana cacaccatca gaatccataa tcacctgcca aatgggggtat cnagaccaag 420
gggcctccan aaggagttaa gngggtaccg tggggngg 458

```

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<210> 611
<211> 565
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

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<400> 611
aagcnganac caaccctcac taaagggaa aaaagctgga gctccaccgc ggtgcggccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggttgc agtgagccga 120
gatcgcacca ttgcactcca gtctgggcaa cagagtgaga ttccgtctca aaaaaaaaaa 180
gaaaaggaaa aaaaaatagc attatacctc ttcttgtct caaccgccat gaaaattctg 240
aacactccaa attcagttga ataatccaaa acaaaattta taagtataaa ataattttac 300
ttcttatagt aatagtatac tttaaaaagc ctcagggtat attatcttct aaacagctac 360
aattcagtg agctacatta accaactatg ttctctagtt gaggaacaac taggcctatt 420
tactgctgt gtagectcag tgcctaacat gggtgccaaa taaatattn nggattacac 480
tgaattgtaa aaaccattcg tttttgttta caattgccaa aaatctcaaa aggnccctgta 540
tttatgtaat tctttgaaat tatta 565

```

```

<210> 612
<211> 442
<212> DNA
<213> Homo sapiens

```

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<400> 612
gaccaggggtt gctccgtccg tgctccgcct cgccatgaact tcctacagct atcgccagtc 60
gtcggccacg tcgtccttcg gaggcctggg cggcggctcc gtgcgtattg ggccgggggt 120
cgcttttcgc gcgcccagca ttcacggggg ctccggcggc cgcggcgtat ccgtgtcctc 180
cgcccgcctt gtgtcctcgt cctcctcggg gggctacggc ggcggtang gcggcgctcct 240
gaccgcgtcc gangggctgc tggcgggcaa cgagaagcta accatgcaga actnaangac 300
cgcttggctt ctactggana agttcgnc tgnaggggca aagggaacta aaagttaaat 360
ccgcnattgt acaaaacagg gcttggcctt cccggataaa gcattataaa gancntcagg 420
aattggggaa aaatttttgn nc 442

<210> 613
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (190)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (192)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (199)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (213)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (237)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (272)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (299)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (302)
 <223> n equals a,t,g, or c

<400> 613
 ggcanaggag aactccagga ttgtcctgca gatcgacaac gcccgtttgg ctgcagatga 60
 ctccgaacc aagtttgaga cggaacaggc tctgcgcatg ancgtggagg ccgacatcaa 120
 cggcctgcnc aggtgctgga tgagctgacc ctggcccaga accgaccttg gngatgcagt 180
 tcgangcctn angaagagnt ggcctaccta agnaggaccc tgagggggaa tcaattncgt 240
 taagggggcca atgggaggcc attaattttg anttggttcc ttccggacct tttggccant 300
 cntgtt 306

<210> 614
 <211> 555
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 614
ggcgactaca gccactacta cacgaccatc caggacctgc gggacaagat tcttgggtgcc 60
accattgaga actccaggat tgtcctgcag atcgacaatg cccgtctggc tgcagatgac 120
ttccgaacca agtttgagac ggaacaggct ctgcgcatga gcgtggaggc cgacatcaac 180
ggcctgcgca ggggtgctgga tgagctgacc ctggccagga cgcacctgga gatgcagatc 240
gaaggcctga aggaagagct ggcctacctg aagaagaacc atgaggagga aatcagtacg 300
cttagggggc aagtgggagg ccaggtcagt gtggagggtg attccgctcc gggcaccgat 360
ctcgccaaga tcctgagtga catgcgaagc onatatgagg tcatggccna gcagaaccgg 420
aaggatgctt aancctggtc accagcccgg actgaagaat tgaaccggga ggtcgcttgc 480
cacacggagc aacttcngat gagcagggtcc aaggttactg acctgcggcg caacccttaa 540
ggncntgaga atgaa 555

<210> 615
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<400> 615

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tganagaaat taaccctcac taaagggnac aaaagctgga gctccaccgc ggtgcnccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggctaa ggctgcgttg 120
gggtgaggcc ctcaattcat ccggcgacta gcaccgcgtc cggcagcgcc agncctacac 180
tcgcccgcgc catggcctct gtctccgagc tcgcctgcat ctactcggcc ctcattctgc 240
acgacgatga ggtgacagtc acggaggata agatcaatgc cctcattaaa gcagccgggtg 300
taaagtgtga gcctttttgg cctggcttgt ttgcaaaggc cctggccaac gtcaacattg 360
ggagcctcat ctgcaatgta ggggccgggtg gacctgctcc agcagctggt gctgcaacca 420
gcaggaggtc ctgccccctc cactgctgct gctccagctg aggagaagaa agtggaagca 480
aagaaagaag aatccgagga gtctgatgat gacatgggct ttggtctttt tgactaaacc 540
tcttttataa catgttcaat aaaaagctga acttt 575
```

<210> 616

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<400> 616

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ctcgtgccga attcggcacg agccgcgcgc tcgcgcgcag acgccgcgcg gatgcgctac 60
gtcgcctcct acctgctggc tgccctaggg ggcaactcct ccccccagcg caaggggnatc 120
aagaagatct tggacaacnt ggggtatcgag gcggacgacg accggctcaa caaggttatc 180
agtgaactga atggaaaaaa cattgaagac gtcattgccc aggttattgg caagcttgcc 240
agtgtacctg ctggtggggc tgtagccgtc tctgctgccc caggctctgc agccccctgct 300
gctggttctg cccctgctgc agcagaggag aagaaagatg agaaga 346
```

530

<210> 617
 <211> 409
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (356)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (380)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (388)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (397)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (408)
 <223> n equals a,t,g, or c

<400> 617
 gggcagggt gagccagcga cgccctccat tcactctccg cgcccgttct cgggtgtgcc 60
 tcccgttccg ctgcccgcgc tgccaccatg acggaacagg ccatctcctt cgccaaagac 120
 ttcttggccg gaggcacgc cgccgccatc tccaagacgg ccgtggctcc gatcgagcgg 180
 gtcaagctgc tgctgcaggt ccagcacgcc agcaagcaga tcgccgccga caagcagtac 240
 aagggcatcg tggactgcat tgtccgcac cccaaggagc agggcgtgct gtccttctgg 300
 aggggcaacc ttgccaacgt cattcgctac ttccccactc aagccctcaa cttcgncctc 360
 aaggataagt acaagcagan cttcctgnng ggcgtgnaca agcacacnc 409

<210> 618
 <211> 473
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<400> 618
ggcanagcnc aaagacaggc ttttnagatt ggatctccgt ggcgtactat ggatgcttcc 60
gagagggggc gactattata caagttggca agttgatcaa agaagctgcc gggaaaagca 120
atctgaagag ggtgaccctg gagcttggag gaaagagccc ttgcattgtg ttagctgatg 180
ccgacttgga caatgctgtt gaatttgcac accatggggg attctaccac cagggccagt 240
nttgatatagc cgcattncagg atttttgttg aagaatcaat ttatgatgag tttgttcgaa 300
ggagtgttga gcgggttaag antatatacct tgggaantcc tttgacccca gnagttcann 360
caagnccntc agattgacaa ggaccatttg gtaaatactt gacccattg agagtnggaa 420
gaaagaaggg gcccaantgga tntggnggag gccctggggg ataaaggtan ttg 473

<210> 619
<211> 604
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 619

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cgacntttccc ctactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta 60
gaactagtgg atcccccggg ctgcaggaat tcggcacgag gtggtcccc tggcaggac 120
aaatggcgag actaccaccc aagggttggg tgggctgtct gagcgctgtg cccagtacaa 180
gaaggacgga gctgacttcg ccaagtggcg ttgtgtgctg aagattgggg aacacacccc 240
ctcagccctc gccatcatgg aaaatgccaa tgttctggcc cgttatgcc gtatctgcca 300
gcagaatggc attgtgcca tcgtggagcc tgagatcctc cctgatgggg accatgactt 360
gaagcgcttg ncagtatgtg accgaaaagg tgcttggtt gctgctacaa ggctcttgag 420
tgaccaccac atctacctgn aaggcacctt gctgaagccc aacatggtcc cccaggccat 480
```

534

```
gcttgcactc anaagttttn ttatgaagga gattgcccac ggccaacccg tctcaancgc 540
tgtgcccgcga caantgcccc cccgcttgtc acttggggatc aacnttncct gtnttggaag 600
gccca                                              604
```

```
<210> 620
<211> 312
<212> DNA
<213> Homo sapiens
```

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<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c
```

```
<400> 620
gngccaacag ccttgccctgt caaggaaagt acactccgag nggtcaggct ggggctgctg 60
ccagcgagtc cctcttcgtc tctaaccacg cctattaagc ggaggtgttc ccaggctgcc 120
cccaacactc caggccctgc cccctcccac tcttgaagag gaggccgcct cctcggggct 180
ccaggctggc ttgcccgcgc tctttcttcc ctcgtgacag tgggtgtgtgg tgctgtctgt 240
gaatgctaag tccatcacc cttccggcac actgccaaat aaacagctat ttaaggggga 300
aaaaaanann nn                                              312
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<210> 621
<211> 248
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<400> 621
gatgattgtg aattcaaggc tgaaggaaat agcaaattca cctacacagt tctggaggat 60
ggttgacaga aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 120
gctgtgagac tacctattgt ngatattgca ccctatgaca ttggtggtcc tgatcaagaa 180
tttggtgtgg acntnggncc tgtttgnttt ttataaacca aactctatct gaaatcccaa 240
caaaaanaa 248

<210> 622
<211> 344
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (279)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (310)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<400> 622
aatncggcac gaggcaccnc ctgcgcaccc ncaatcagtc cagcgatgag ctgcagctga 60
gtatgggaaa tgccatgttt gtcaaagagc aactcagtct gctggacagg ttcacggagg 120
atgccaagag gctgtatggc tccgaggcct ttgccactga ctttcaggac tcagctgcag 180
ctaagaagct catcaacgac tacgtgaaga atggaactcg aggactata acctgaacga 240
catacttctc cagctgaagt acacaggcaa tgncagcgna ctnttcatcc tgcctgntca 300
ngncaagatn gnggaagtgg aagccatgtt ggttttcaga gncc 344

<210> 623
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
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<222> (286)
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cccaggacca cctcctgtca tcctgccagg aatgaaagac attaaaggag agaaaggaga 180
tgaagggcct atggggctga aaggatacct gggcgcaaaa ggtatccaag gaatgccagg 240
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catggtgaag gttggcggct acatccttgg ggagtttggg aaacctgaat tntggggacc 180
cccgntncca gccccccagt ggcagttctc cctgctccac tncaagttcc atctgtgaca 240
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gagaccaagg ncacatcca gggggtnctg nggggtcggg tttccagttg cgcaatgttg 360
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tctgctcccg tgactgaact ctgatcttga tagagagtcc cggccatggc agccaaagga 180
ggcaccgtca aagctgcttc agcattcaat gccactgaag atgcccagac cctgaggaag 240
gccatgaagg ggcttggcac cgacgaagat gccatcatca gcgtcctcgc ctaccgcaac 300
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atacctcana ctgetgctgg actcacttcg aaaagcccag ggnaattgac aacgtcctcg 180
tcattcttag ccatgacttc tggtcgaccg agatcaatca gctgacgcc ggggtgaatn 240
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cangttantg accta                                     315

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542

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 gatgaattcc aaattctgct tgcttgcttt ttaatatgga tatgcttata cacttacact 180
 ttatgcacaa aatgtagggt tataataatg ntaacatgga catgatcttc tttataattc 240
 tactttgagt gctgtctcca tgtttgatgt atctgagcag gntgctccac aggtagctct 300
 agcagggctg gcaacttann aggtggngag cagagaattc tcttatccaa catcaacatc 360
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cactggccgt cgttttacaa cgtcgtgact gggaaaaccc tggcgttacc caacttaatc 180
gccttgacgc acatccccct ttcgccagct ggcgtaatag cgaagaggcc cgcaccgatc 240
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taagcgcggc ggggtgtggtg gttacgcgca gcgtgaccgc tacacttgcc agcgccctac 360
gcccggtcct ttcgtttctt cccttccttt ctgcgccagt tcgccggnnt tccccgtnaa 420
gctntaaatn gggggctncc tttanggttc cgattaangn tttacgggac cttngaccca 480
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 cgctcgtgact gggaaaaccc tggcgntacc caacttaatc gccttgcagc acatccccct 180
 ttcgccagct ggcagtaata gcgaagaggc ccgcaccgat cgcccttccc aacagttgcg 240
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 ccctttangg ttccgatnta gtgctgtacg gcacctngac cccaaaaaac ttgattaggg 480
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 ggnotattct tttgatttat nagggatttt gncgatttca ggnotatttg ntaaaaaatg 660
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 ccctggcggtt acccaactta atcgcccttc agnacatccc cntttcgcca gctggcgtaa 240
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 ggacncncnc tgtancggng cattaancnc ggcgggtgtg gngggtaccc ncancgngac 360
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 cacgttcgcc ggctttcccc gtcaagctnt aaatcgggg ctccctttag ggttccgatt 480
 aagngcttta cgggaccttn gnccccacaa aaacttgatt aggggngatg gntcacngta 540
 aaggggccat tgcccttgat aaaacggttn tttngccctt ttgaccttg aantccccgt 600
 ttctttaaaa aangggacct tttggttcna actgggaa 638

<210> 631
 <211> 187
 <212> DNA
 <213> Homo sapiens

<400> 631
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 tcgccag 187

<210> 632
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 <212> DNA
 <213> Homo sapiens

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aagcttacgt acgcgtgcat gcgacgtcat agctcttcta tagtgcacc taaattcaat 180
tcactggccg tcgttttaca acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat 240
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cgccc 305

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cgctgcagg taccggtcg gaattcccg gtcgaccac gcgtccgaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa gggnggacga tctagaggat ccaaagctta cgtacncntn 180
natgcaa 187

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<211> 243
<212> DNA
<213> Homo sapiens

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atccaggcca naaagttcac agtcaaattg ggaggggtat tcttnatgca ggagacccca 180
ggccctggag gctgcnacat acctnaatcc tgtcccangc cggatcctnc tgaagccctt 240

ttt

243

<210> 635

<211> 180

<212> DNA

<213> Homo sapiens

<400> 635

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<212> DNA

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<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (747)

<223> n equals a,t,g, or c

<400> 636

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gggtcgacccc acgcgtccgc tagttctaga tcgcgagcgg ccgctctaga ggatccaagc 120
ttacgtacgc gtgcatgcga cgtcatagct cttctatagt gtcacctaaa ttcaattcac 180
tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 240
ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggcccgc accgatcgcc 300
cttcccaaca gttgcgcagc ctgaatggcg aatgggacgc gccctgtagc ggcgcattaa 360
gcgcggcggg tgtggtggtt acgcgcagcg tgaccgctac acttgccagc gccctagcgc 420
ccgctccttt cgctttcttc ctttccttc tcgccacgtt cgccggcctt ccccgtaag 480
ctctaaatcg ggggctncct ttagggntcc gatttaagt ctttacggac ctcgacccca 540
aaaaacttga ttagggatgat gggtcacgta gtgggccatc gcctgataga cggttttcgc 600
ctttgacggt ggagtcacgt cttaataggg actcttgtnc aaactggaac aacactnaac 660
ctatttggct atcttttgat tataaggatt tgccgattcg gcattggtaa aaatgagtgt 720
tacaaaatta cgcgattaca aaaatan 747
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<210> 637

<211> 497

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (415)

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<220>

<221> misc feature

<222> (445)

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (463)

<223> n equals a,t,g, or c

556

<220>

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<222> (497)

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<400> 637

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tcgtgactgg gaaaaccctg gcggtaccca acttaatcgc cttgcagcac atcccccttt 180
cgccagctgg cgtaatagcg aagaggcccc caccgatcgc cttcccaac agttgcgcag 240
cctgaatggc gaatgggacg cgccctgtag cggcgcata agcgcggcgg gtgtggtggt 300
tacgcgcagc gtgaccgcta cacttgccaa gcgccctaag cgcccgttcc ttctcgctttc 360
ttcctttctt ttttngccac gttcggccgg cttttccccg taaagcttta aatcnggggg 420
gttccttaaa ggggttcgga ttaannggtt ttacgggaac ttngacccca aaaaaacttg 480
attagggggg aaggtnn                                     497
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<210> 638

<211> 509

<212> DNA

<213> Homo sapiens

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<220>

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<222> (348)

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<220>

<221> misc feature

<222> (385)

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<220>

<221> misc feature

<222> (394)

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<220>
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 <222> (492)
 <223> n equals a,t,g, or c

<220>
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 <222> (496)
 <223> n equals a,t,g, or c

<400> 638
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 gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcaactggccg tcgtttttaca 120
 acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat cgccttgacg cacatccccc 180
 tttcgccagc tggcgtaata gcgaagaggc ccgcaccgat cgccttccc aacagttgag 240
 cagcctgaat ggcgaatggg acgcgccctg tagcggcgca ttaagcgagg cgggtgtggt 300
 ggttacgcgc agcgtgaccg ntacacttgc cagcgcccta gcgcccgtc ctttcgcttt 360
 cttccttctt tctcggcacg gtcgnccggc tttncgccgc aagctntaaa tcgggggggt 420
 tccntttagg ggttccgaat taagggttt accgggaacc ntngaacccc caaaaaactt 480
 tgaattaggg tngaangggg tcacggtaa 509

<210> 639
 <211> 507
 <212> DNA
 <213> Homo sapiens

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<220>
 <221> misc feature
 <222> (214)
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<223> n equals a,t,g, or c

<220>
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<222> (298)
<223> n equals a,t,g, or c

<220>
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<222> (334)
<223> n equals a,t,g, or c

<220>
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<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
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<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
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<222> (375)
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<220>
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<222> (384)
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<220>

559

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<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
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<222> (453)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<400> 639
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gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcaactggccg tcgttttaca 120
acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat cgccttgacg cacatccccc 180
tttcgccagc tggcataata gcgaagaggc ccgnaccgat cgcccttccc aacagttgcg 240
cagcctgaat ggcgaatggg acncgccctg tagcggcgca ttaagcgcgg cgggtgtngt 300
ggttacgcgc agcgtgaccg ctacacttgc agcnccttag cgcccgctcc tttcnnttn 360
ttnccttcct ttntngcacg tttnacggct ttcccgtaa gctctanac gggggctcct 420
ttaggggtcn atttaatgtt tacggacctt tanccaaaaa acttgatatg gttatggta 480
ntgtnttgng ccattgcctt atttccc 507

<210> 640
<211> 496
<212> DNA
<213> Homo sapiens

<220>
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<222> (10)
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<220>

<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (33)
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<222> (37)
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<222> (126)
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<222> (140)
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<220>
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<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<223> n equals a,t,g, or c

<220>
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<222> (356)
<223> n equals a,t,g, or c

<220>
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<222> (379)
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<223> n equals a,t,g, or c

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<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

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<222> (393)
<223> n equals a,t,g, or c

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<222> (463)

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<220>

<221> misc feature

<222> (478)

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cctcaagggtt aaaccctcgg aatacgatag gaaaatgtaa aggccaagat ccaggataag 120
gaaggnattc ctctgaatn cagcagagaa ctgaatcttt gcctggncaa gcagctggga 180

563

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aggatgggac gttactttgt gctgaactta caatatttca aaaggggttc ttacttcttn 240
atcttggtgtt gagaatttcg tgggtgggtgc ttaggaaagg ggaaggagga agttttttaca 300
accattccca ggaaggntta ggcccagggn aaagganggt ttaagntggt tgtnncngaa 360
atttttttagg gnggggttgng attgggcaan tnngtnggct ttggttgggg ggttccccctt 420
tttaanngan ttnggggntt nggggngttt tttttggggn ggnaaatttt tttaaggnct 480
tttttttggg ggaaaaa 496

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<210> 641
<211> 186
<212> DNA
<213> Homo sapiens

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<220>
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<222> (112)
<223> n equals a,t,g, or c

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<220>
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<222> (133)
<223> n equals a,t,g, or c

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<220>
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<222> (148)
<223> n equals a,t,g, or c

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<220>
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<222> (167)
<223> n equals a,t,g, or c

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<220>
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<222> (177)
<223> n equals a,t,g, or c

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gccagtgac accattgaga atgtcaaagc caaaattcaa gacaaggagg gnatcccacc 120
tgaccagcag cgnctgatat ttgccgnaa acagctggaa ggatggncgc aactctntca 180
gactac 186

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<210> 642
<211> 519
<212> DNA
<213> Homo sapiens

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<220>
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<222> (168)

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<221> misc feature

<222> (188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (216)

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<222> (217)

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<220>

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<222> (218)

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<221> misc feature

<222> (282)

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<220>

<221> misc feature

<222> (284)

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<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

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<220>
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<220>
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<222> (364)
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<220>
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<222> (374)
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<220>
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<222> (396)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (428)
<223> n equals a,t,g, or c

<220>
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<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c

<400> 642
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gctccgatgt atttgatggg gacctgggaa tggggcagcc aagggctgca aagcctcccc 120
acacatgacc ccagccctct acagcggtaa ggtgagggac ccacattncc cctgccccct 180
gagacttngg gggacgttgc ccccctgana tgcagnnngg gcctgaatat gtgaaccagc 240
cagatgttcg gccccagccc ccttcgcccc gaagatgngc tngnctgctg cccgacctnc 300
ttgggtgccac tctggnaagn ggccaagaat ctnttcccca gggagaatt gggtcgtcaa 360
aagnggtttt tgcnttttgg gggttccgtt gagaancccg agtangttta caacccaag 420
ggaagaanct tcccctnaag cccaacctt cttccttgct taagccagcc tttgacaacc 480
tctaataatt ggancaagan ccaacaaaac cgggggggtc 519

<210> 643
<211> 138
<212> DNA
<213> Homo sapiens

<220>
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<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
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<220>
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<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

567

<400> 643
agttccttgc ngcaggcaac ccacttaggt ggccancaat cttgacttcc agatggaaga 60
gtgacatcta tnanaggaaa agtgatggca tntatatcat anntctcaag aggacctggg 120
agaagcttct gctgggca 138

<210> 644
<211> 602
<212> DNA
<213> Homo sapiens

<220>
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<222> (530)
<223> n equals a,t,g, or c

<220>
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<222> (554)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (562)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (591)
<223> n equals a,t,g, or c

<220>
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<400> 644
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gcagcatggc tgaccaactg actgaagagc agattgcaga attcaaagaa gctttttcac 120
tatttgacaa agatggtgat ggaactataa caacaaagga attgggaact gtaatgagat 180
ctcttgggca gaatcccaca gaagcagagt tacaggacat gattaatgaa gtagatgctg 240
atggtaatgg cacaattgac ttccctgaat ttctgacaat gatggcaaga aaaatgaaag 300
acacagacag tgaagaagaa attagagaag cattccgtgt gtttgataag gatggcaatg 360
gctatattag tgctgcagaa cttcgccatg tgatgacaaa ccttggaaga gaagttaaca 420
gatgaagaag tttgatgaaa tgatcaggga agcagatatt gatggtgatg gtcaagtaaa 480
ctatgaagag tttgtaccaa atgatgacag caaaagtgaag agaccttttn ccagaatggg 540
gttaaatttc ttgnaccaaa antggttaat ttggcctttt ctttggttgg naacttatct 600
gn 602

<210> 645
<211> 112
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<400> 645

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atgtgtatgt ccacatacca caccttagga attctcacga aaagtnttcc aa 112

<210> 646

<211> 514

<212> DNA

<213> Homo sapiens

<220>

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<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (389)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (391)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (444)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (463)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (466)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (473)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (485)
 <223> n equals a,t,g, or c

<400> 646
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 ccgtgacaac aacaggggtgg gcttcgccga ggctgcccgc ctctagttcc caaggcgtcc 120
 gcgcgccagc acagaaacag aggagagtcc cagagcagga ggccccctggc ccagcgggcc 180
 ctcccacaca caccacaca ctcgcccgcc cactgtcctg ggcgccctgg aagccggcgg 240
 gccaaagccga cttgctgttt tgttctgtgg tttccccctcc ctgggttcaa aaatgctgcc 300
 tgctgtctgt ctctccatct tgtttggtgg gttaaactga tccaaaanaa aatttgttcc 360
 gtgattggaa aaaccaccca acttggaanc nactcttttt cctgggtcct tctctccagg 420
 atcccccccg gcctacaagc cgtnggttaa cctacccaac agngcncccg gnccttgaa 480
 ctgcnctaa gcccttccaa ttggccattg gtcc 514

<210> 647
 <211> 525
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<220>
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 <222> (23)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (73)
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<220>
 <221> misc feature
 <222> (480)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (517)
 <223> n equals a,t,g, or c

<400> 647
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 cctgctggac ggctccgagc ggctgggtga gcagaacttc cacaaggccc ggcgcttcgt 180
 ggagcaggtg gcgcggcggc tgacgctggc ccggagggac gacgaccctc tcaacgcacg 240
 cgtggcgctg ctgcagtttg gtggccccgg cgagcagcag gtggccttcc cgctgagcca 300
 caacctcacg gccatccacg aggcgctgga gaccacgcaa tacctgaact ctttctcgca 360
 cgtgggcgca ggcgtggtgc acgccatcaa tgccatcgtg cgcagcccgc gtggcggggc 420
 ccggaggcac gcagagctgc cttcgtggtc ctcacggacg gcgtcacggg caacgacagn 480
 ctgacgagtc ggcgcactcc atgcgcaagc agaacngnga cccac 525

<210> 648
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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<220>
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<222> (118)
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<220>
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<220>
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<222> (146)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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<220>
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<220>
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<220>
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<220>

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<220>
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<220>
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<220>
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<220>
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<220>
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 <222> (301)
 <223> n equals a,t,g, or c

<220>
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 <222> (316)
 <223> n equals a,t,g, or c

<400> 648
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 aagaaccgct gggaggacnc tggtaagcag ctctacaacg tggaggccac atcctatncc 120
 ctcttngccc tactgcagct aaaagncttt gactttgtnc ctcccgtcgt ncnttngctc 180
 aatgnacaga gatnctacgg tggtagntat ggctctaccc aggccacctt catggtgttc 240
 caagncttag ctcaatanca gaaggacggc cctgaccacc aggcactgaa ccttgangtg 300
 nacctccaaa tgctcng 317

<210> 649
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<400> 649

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ctttcaaagt tcaccaatac tttaatgtag agcttatcca gcctggagca gtcaaggtct 120
acgcctatta caacctggag gaaagctgta cccggttcta ccatccgga aaggaggatg 180
gaaagctgaa caagctctgc cgtgatgaac tgtgccgctg tgctgaggag aattgcttca 240
tacaaaagtc ggatgacaag gtcaccctgg aagaacggct ggacaaggcc tgtgagccag 300
gagtggacta tgtgtacaag acccgactgg caagggtcaa gctgtccaat gactttgacc 360
gagtacatca tggccattga gcagaccatc aagtcaggct cggatgaggt gcaggttgga 420
cagcagcgca cgttcatcag ccccatcaag tgcagagaag ccctgaagct tgaggagaag 480
aaacactact tcatgtgggg nctcttctnc caattctggg gagagaagcc caaccttagc 540
tacatcatcg ggaaggacac ttgggtggag cactg 575
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<210> 650

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (186)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (265)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (276)

<223> n equals a,t,g, or c

<400> 650

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tcgacccacg cgtccggcat tgtctatcat tgcactggag atccaagcac agaagtgtgt 60
agagttaaca gaaggaatag aatgtcttca gacacattcc aagataaatg gcagagattt 120
gaccttcttg caagaacttg tatccaagtg tttaactgaa tattcatcta agcaaagtgg 180
ttccanacca aatgttccag aagtttgaaa atggatttgt tcttggacgt actgcacggc 240
aanctgaagc acaggtact aacgngntna acccanc 277
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<210> 651

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (89)

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<220>

<221> misc feature

<222> (97)

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<220>

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<222> (100)

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<220>

<221> misc feature

<222> (106)
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<220>
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<222> (175)
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<220>
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<222> (185)
<223> n equals a,t,g, or c

<220>
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<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 651
ggcacaggnt ccngggtgga gctggctgag tcgcgcgctc tgctccaccc ggggggggctg 60
ttttttctgg gcttggtcg cggcgnacng agatgggnagn gcagtnggac gaggccgtga 120
agtaatacac cctaggagga gattcagaag cacaaccaca gcaagagcac ctggnctgat 180
cctgncacca caaggtgtac gaatttgacc aaatttctgg nagaggcatc cctggtgggg 240
gaggaagtgt taaggggaac aagcttgag gtgacgctac ttgaggaant tttgaggnt 300
gttcgggggca cttttaccag ntgncccaag ggaaaattgt tcccaaaaac atttnca 357

576

<210> 652
<211> 190
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<400> 652
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cattttcctt atctgcttcc tagtcctgta tgcccttttc ctaacactca caacaaaact 120
aactaatact aacatctnag acgctnanga aatagaaacc gtctgaacta tctgcccgn 180
catcatccta 190

<210> 653
<211> 603
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (600)
<223> n equals a,t,g, or c

577

<400> 653
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gtcaccctga agtttatatt cttatcctac caggcttcgg aataatctcc catattgtaa 120
cttactactc cggaaaaaaaa gaaccatttg gatacatagg tatgggtctga gctatgatat 180
caattggctt cctaggggtt atcgtgtgag cacaccatat atttacagta ggaatagacg 240
tagacacacg agcatatttc acctccgcta ccataatcat cgctatcccc accggcgta 300
aagtatttag ctgactcgcc aactccacg gaagcaatat gaaatgatct gctgcagtgc 360
tctgagccct aggattcatc tttcttttca ccgtaggtgg cctgactggc attgnattag 420
caaactcacc actagacatc gtactacacg acacgtacta ccgttgtagc ccacttccac 480
tatgtcctat caataggagc tggatttgcc atcataggaa ggcttcattc actgatttcc 540
ctattctcag gctacaccct agaccaaac tacgccaaaa atcatttcac tatcataatn 600
cac 603

<210> 654

<211> 356

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 654

ggTTTTTTtc ttcgcaggat ttttctgagc cttttaccac tccagcctag cccctacccc 60
ccaattagga gggcactggc cccaacagg catcaccccg ctaaattccc tagaagtccc 120

578

```

actcctaaac acatccgtat tactcgcatc aggagtatca atcacctgag ctcaccatag 180
tctaataagaa aacaaccnaa accaaataat tcaagcactg cttattacaa ttttactggg 240
tctctatttt accctcctac aaagcctcan agtacttcga gtctcccttc accatttcgg 300
anggcaccta cggctcaaca ttttttgnag cccaggcttn cacgganttt cacgtc 356

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<210> 655

<211> 682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<400> 655

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gcgcaagtag gtctacaaga cgctacttcc cctatcatag aagagcttat cacctttcat 60
gatcacgccc tcataatcat tttccttatc tgcttcctag tcctgtatgc ccttttccta 120
acactcacia caaaactaac taataactaac atctcagacg ctcaggaaat agaaaccgtc 180
tgaactatcc tgcccgccat catcctagtc ctcacgccc tcccatccct acgcacccct 240
tacataacag acgaggtcaa cgatccctcc cttaccatca aatcaattgg ccaccaatgg 300
tactgaacct acgagtacac cgactacggc ggactaatct tcaactccta catacttccc 360
ccattattcc tagaaccagg cgacctgcga ctcccttgacg ttgacaatcg agtagtactc 420
ccgattgaag ccccatctcg tataataatt acatcacaag acgtcttgca ctcatgagct 480
gtccccacat taggcttaaa aacagatgca attcccgac gtctaaacca aaccactttc 540
accgctacac gaccgggggt atactacggc caatgctctg aaatctgtgg agcaaaccac 600
agtttcatgc ccacggcct agaattaatt cccctaaaaa tctttgaaat aagggcccg 660
atttacccta tagcaccct ct 682

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<210> 656

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

579

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<400> 656

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gagaagagct tatcaccttt catgatcacg ccctcataat cattttcctt atctgcttcc 60
tagtcctgta tgcccttttc ctaacactca caacaaaact aactaatact aacatctcag 120
acgctcagga aatagaaacc gtctgaacta tcctgcccgc catcatccta gtccctcatcg 180
ccctcccatc cctacgcac ctttacataa cagacgaggt caacgatccc tcccttacca 240
tcaaatcaat tggcaccaat ggtactgaac ctacgagtac accgactacg gcggactaat 300
cttcaactcc tacatacttc cccattatt cctagaacca ggcgacctgc gactccttga 360
cggtgacaat cgagtagtac tcccgattga agccccattc gtataataat tacatcacia 420
gacgcttgna ctcaagagct gnccacant aggcttaaaa acaggatgca atttccgggc 480
ggntnaaaca aaacaatttt accggtacac gaacgggggg 520

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<210> 657

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<400> 657

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gcactttctg ccaaagaaat ctctcctttt gcttctagca ccgactagat ttccttcagc 60
tgatgattga ctcccagaat tcgaaagaaa ctgagtccca caaagctctg tctgatctgg 120
agctcgcagc ccagtcaata atcttcattt ttgctggcta tgaaaccacc agcagtgttc 180
tttccttcac tttatatgaa ctggccactc accctgatgt ccagcanaaa ctgcaaaagg 240
gagattgatg cagttttgcc caataaggca ccacctacct atgatgccgt ggtacagatg 300
gattaccttg acatggtggt gaatgaaacc tcaaattatn cccgttggtt tta 353

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<210> 658

<211> 362

<212> DNA

<213> Homo sapiens

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<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
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<222> (215)
<223> n equals a,t,g, or c

<220>
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<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
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<222> (321)
<223> n equals a,t,g, or c

<220>
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<222> (333)
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<220>
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<222> (338)
<223> n equals a,t,g, or c

<220>
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<222> (362)
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<400> 658
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caggcagcca agaccctcc cacttccttc tttggcctcc ctctcctcag gtatgaaaat 120
gaagctggcc ctgcgcccag gcgtttgaag gctgacatca acggcttgcg ccgagtcctg 180
ggatgagctg accctggcca ggnctgacct ggagntgcag atcgagggcc tgaatgaggn 240

581

agctagcctt acctgaagtg gnaccacgaa ggagggagat ggaaggagtt tcagcagcca 300
gttgcccggn caagttcaat nttggagatg ggncggancc ccgggtgtgg gacctgaccc 360
gn 362

<210> 659
<211> 447
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
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<222> (286)
<223> n equals a,t,g, or c

<220>
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<222> (294)
<223> n equals a,t,g, or c

<220>
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<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<400> 659
gcttctnccg tccttctagg atctccgcct ggntcggccc gcctgcntcc actcctgcct 60
ctaccatgtc catcaaggtg acccagaagt cctacaaggn gtccacctct agcccccg 120

```
ccttcagcag ccgctcctac acgaatnggc ccggttcccg catcaacncc tegancttct 180
cccgaatagg cagcagcaac tntngcagtg gcctgggcgg cggctatngt ggggccagcn 240
gcatggcnagg catcaccgca gttacgggtca accagagcct gctgancccc cttntcctgg 300
aggtggacccc caacatccag gccgtgcgca cccaggagaa ggagcagatc aanaccctca 360
acaacaagtt tgccctcttca tagacaaggt aggttcctgg agcagcagaa caagatgttg 420
gaaaccaagt agagctcctt gagcnnn 447
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<210> 660

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

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<220>

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<222> (70)

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<220>

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<222> (73)

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<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

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<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

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<222> (121)
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<220>
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<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
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<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<400> 660

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ggnacgagcn aaggcctgca ccattctcct ccgggggggct agcaaagaaa ttctntcgga 60
agtagaacgn gancctccag gntgcnatgc aagtntgtcg caatgttctc ctgggaccct 120
nagctggtgc naggggggtgg ggcntccaaa atggctgtgg cccatgcntt ganagaaaaa 180
tccanggccca tggactggtg tgggaacaat ggccatacag ggctgttgnc cagggcccta 240
naggttcatt cctcgtnacc ctggatccan aaactgtggg gggnccagcca ccatt      295
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<210> 661

<211> 212

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<400> 661

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gttggcgtgc tgggcctgga cctctggcag gtcaagtctg gcaccatctt tgacaacttc 60
ctcatcacca acgatgaggc atacgctgag gagtttggca acgagacgtg gggcgtaaca 120
aaggcagcag agaaacaaat gaaggacaaa caggacgagg agcagaggct taaggaggag 180
gaagaagaca agaaacgcaa agaggangan ga                                212
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<210> 662

<211> 130

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<400> 662

aaaatacatt ganatacatn atgaaggcca ctatnaccct ccttctgntt gcacaacttt 60
cctgggctgg accntttcat cagacaggct tattagactc tatgctagaa catgaagctt 120
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<211> 232

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acaactaatt gtcggtgna acaaaatgga ttccactgag ccaccctaca gccagaagag 180
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caccacgtcc cgaattctca gacgacacct ggagactgtc ccgacactcc cctgagaggt 180
ttctggggcc cgctgcggtc acgagggggg gcccggttac ccaattcgtc ctatagtgat 240
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<210> 665
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cgggcaagtc caccactact ggccatctga tctataaatg cgggtggcatc gacaaaagaa 180
ccattgaaaa atttgagaag gaggtgctg agatgggaaa gggctccttc aagtatgcct 240
gggtcttgga taaactgaaa gctgagcgtg aacgtggtat cnccattgga tatctccttg 300
tggaatttg agaccagcaa gtactatgtg actnnncatt gnatgcccc aggacacaga 360
gactttatcc agaaac                                     376
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<211> 332

<212> DNA

<213> Homo sapiens

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590

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tccccggtcc ttcgagctcc ttgtgcgcgc tggtgggtgct gctgctgctg ctgacgcagc 180
cagggcccat cgccagcgct ggtcctgccg ntgctgtgtt ganagagctg cgttgccgtt 240
tgtttacaga ccacgcaagg agtccatccc aaaaatgatc agtaatntgc aagtgtncgc 300
cataggccca acagtgtctc aangngggaa gn 332

<210> 667
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<212> DNA
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<400> 667

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gganctgntc atgtccttgn atccanacaa attgtgccga cgacgccatg gaccctggta 180
ctaaaganag agcttggtgc gcatttggaa ttgcaccatg cacgggacctg accttctggg 240
naccacagct gtgtaggcag aggacagggt gacaattttg tctttgcgca tggcntaatg 300
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361

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 ttgcacacgc ctgaaaagtg ggtgagggtc aagtacccaa agctcatctc ctattcctac 180
 atgggttcgtg gggggcactt tgcggccttt gaggagccgg agctgctcgc ccaggacatc 240
 cgcaagttcc tgtcgggtgct ggagcggcat gnanccaccc ctctccccc gcttgccact 300
 tccccccaca atgccctcca ggnntttcttg ggggaagata accntttctg aggatgantt 360
 tgcctccgtc ccntgnccag ttggganccc agttcaaccc ctnaaccttc nagttaattc 420
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<210> 669
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594

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 gcttccctcc aagaggaacc cgggggttccc gagggaaacc ctctggagga ggaaacgtcc 180
 agcaccgagc tggagactgg cagtgtccca atccttcaat tggtgatttc tgctgtgatg 240
 taattgtatg caggggttgt ggaaaccaga acttcgcctg gagaacagag tgcaaccagt 300
 gtggtgatcg tggcagaggt ggccctggtg gcatgcnggg aggaagaggt ggcctcatgg 360
 atcgtggtgg tcccgggtgga atgttcagag gtggccgtgg tggagacaga ggtggcttcc 420
 gtggtggccg gggcatggac cgaggtggct ttngtgagg aagacgaggt ggccctgggg 480
 ggcccttgga cctttgatgg aacagatggg aggaagaaga ggaggacgtg gaggacctgg 540
 gaaaa 545

<210> 670
 <211> 386
 <212> DNA
 <213> Homo sapiens

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gctacagtca acatcttgat ntcactgtgc caactgcggt gcctgccctt canagccctg 180
cactttgttt tntcccctgg cttcatcnac tacatcagtg gcacccctca tgctctgatt 240
gtgcgtcgct acctctccct gctggacacg gccgtggagc tgganctccc aagataccgg 300
ggccccgcgc ttccccgaan gcagtaagtg cccatctttc cccaacctct cntcaccgac 360
cgtgcccgcgt gcaagtacng tcacaa 386

<210> 671
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<212> DNA
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<220>
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<400> 671
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gcccgggctg cggctacttc tgcacggcg gcaccttct ggagtgccac cctgacttcc 300
gtgtggccca ccgcttccac aaggcctgtg tgtctcagct gaatgggatg gtcttctgtc 360
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<210> 672

<211> 504

<212> DNA

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601

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tttngacctg agaacagctt cctatgntaa tgccattgng aangtcttca aagtgtacan 180
tgaagctggg gtgaccttca catngatgga ncatggctga cttncnact atcctcttca 240
catgtaactt ntgcagacct atcanaagtt tacatgtaac cacagnnntc cctttctctn 300
ctgactnatt aataatggct accattctta acangttaat ccaagtncag cncgtttaag 360
ggngnaaagg antcaagggt nggcgggttc atntncaagn tgcgtgtggn agtagtaatt 420
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tnatcttggt gttgcagnct ttnc 504

<210> 673
<211> 431
<212> DNA
<213> Homo sapiens

<220>
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602

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 agtactgcgg cctcctctcc tctcctaacc tcgctctcgc ggccctagctt taccgcgccg 180
 cctgctcggc gaccagaaca ccttccacca tgaccacctc agcaagttcc cacttaaata 240
 aaggcatcaa gcagggtgtac atgtccctgc ctcagggtga gaaagtccag gccatgtata 300
 tctggatcga tgggtactgga gaaggactgc gctgcaagac ccggaccctg gacagtgagc 360
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<210> 674
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 <212> DNA
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aaggcgaggt agccctctgt tgattggtgt acggagtga cataaacttt ctactgatca 180
cattcctata ctctacagaa caggcaaaga caagaaagga agctgcaatc tctctcgngt 240
ggacagcaca acctgccttn tcccggngga agaaaaagca gnggagtatt actttgcttc 300
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gcagcaagna 370

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<211> 363
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<213> Homo sapiens

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605

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gtggtgatgg tgactcacca gagcagtgcg cggctggctg gagggcgtga ggctctcaga 180
cggggagcga ggctggtttc ctgtgacagc nntgngagtt catttccaac ccagaggtcc 240
gtgacacaga acctgaaggg aagcttcacg gaggcaaga cttgccaaac tacagctngt 300
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ttg 363

<210> 676
<211> 441
<212> DNA

606

<213> Homo sapiens

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<400> 676

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agaatctggt aaaagcacca ttgtgaagca gatgaggatc ctgcatgtta atgggtttaa 180
tgagagacagt gagaaggcaa ccaaagtgc gganatcaaa aacaacctga aagaggcgat 240
tgaaaccatt gtggccgcga tgagcaacct ggtgcccccc gtggagctgg ccaaccccgga 300
aaaccagttc agagtggact acatcctgag tgtgatgaac gtgcctgact ttnacttccc 360
tcccgaattc tatgagcatg ccaaggctct gtggggangat gaangagtgc gtnccctgcta 420
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<210> 677

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<212> DNA

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607

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 gggagcgcaa cgtgctcatc ttgacctgg gcgggggcac ctgcgacgtg tccatcctga 180
 cgatcgacga cggcatcttc gaggtgaagg ccacggncgg ggacaccac ctgggtgggg 240
 aggactttga caacaggctg gtgaaccact tcgtggagga gttcaagaga aaacacaaga 300
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 gaggaccctg tcgtccagca cccaggccag cctggagatc gacttccttg ttttgagggc 420
 atcgacttnt acacgttcat caccaggcgg aaggttcgaa ggagctgtgc ttccgacctt 480
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<210> 678
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 atggaggata tggntacac tggttacaac aactactatg gatatggtga ttatagcaac 180
 cagcagagtg gttatgggaa ggtatccagg cgaggtggtc atcaaaatag ctacaaacca 240
 tactttaaatt attccatttg caacttatcc ccaacaggtg gtgaagcata ttttnccatt 300
 tgaaggttcc tttgaggggg gctccgccc ngncttaatt ggcnttccaa ctaaattttt 360
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<210> 679
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610

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tggctttggc tggggacacc cgaccacgtt tcttggagca ggtnaaacat gaatgtcatt 180
tcttcaacgg gacggaacgg gtgcggttcc tggacanata cttctatcac caagaagaat 240
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ctactgcaga nacactacgg ggttgggtgn 390

<210> 680
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nnaatatcta tnccttcgat gatatcagaa gatatctncn ctatgcaaga aagtntaaac 180
ccaagaattc caaagantca gnggacttca ttgtggagca atntaaacat ctccgcccgn 240
aagatggggt ctggagtagc ccagtcttca tngagggntn cagttgcggc cncattgagg 300
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<210> 681

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<212> DNA

<213> Homo sapiens

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taagtaacat gaaaacattc ncctccgcat aagcctgcgt cagattaaaa cactgaactg 180
acaattaaca gcccaatata tacaatcaac caacaagtca ttattaccct cactgtcaac 240
ccaacacagg catgctcata aggaaagggt aaaaaaagta aaagggaactc ggcaaattctt 300
accccgccctg tttacaaaaa acatcacctc tagcatcacc agtattagag gcaccgcctg 360
cccagtgaca catgtttaac ggncgcggta ccctaaccgt gcaaaggtag cataatcact 420
tggtccttaa ttagggacct gnatgaatgg ctccacgagg gtcagctggc tcttactttt 480
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ccgcctgccc agtgacacat gtttaacggc cgcggtaccc taaccgtgca aaggtagcat 180
aatcaattgt tccttaaata gggacctgta tgaatggctc cacgaggggt cagctgtctc 240
ttacttttaa ccagtgaaat tgacctgccc gtgaagaggc gggcatgaca cagcaagacg 300
agaagaccct atggagcttt aattttattaa tgcaaacagt acctaacaaa cccacaggtc 360
ctaaactacc aaacctgcat taaaaatttc ggttggggcg acctcggagc agaaccacaac 420
ctncgagcag tacatgctaa gacttcacca gtcaaagcga actactatac tcaattgac 480
caataacttg accaacggaa caagttaccc tagggataac agcgcaatcc tattctagag 540
tccatatcaa caatagggtt tacgaacctc gatgtttgat cangacattc ccatngtgca 600
gccnctatt taaaagggtt gttggntcac gantaaaggn cctacntgaa ctgagttcan 660
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<210> 683
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<212> DNA
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616

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accccccggtt gcggctcggg cctgctctgc taccgcggcc gaggggtgga gaagcccctg 180
cacacactga tgcacgggca aggcgtgtgc atggagctgg cgganatcga ggccatncan 240
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<210> 684
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617

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ccagtgtgag gtgcaattgg tggagtctgg gggaggcttg gtacagcctg ggggggtccct 180
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ccaggggtcca ggggaaggggc tggaatgggt ctcagcaatt gacggtagtg gttataaacac 300
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actatatctg caaatgaaca gcctgggagc cgaggacacg gccatctatt attgtgcgaa 420
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<211> 545

<212> DNA

<213> Homo sapiens

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 cggcctccat ctctgcagg tctagtcaga ccctcctgca tgtcaatgga cacaactatt 180
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 ttagaatcac cacggtggag gctgangatg ttggcggtta ttactgcatg caagctctac 360
 aaagtcgcta cacttttggc caggggacca agctggagat caaacgaact gtgggctgca 420
 ccatctgnct tcactctncc gncatctgat gaacanntga aatctggaac tgcctctggt 480
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 taacg 545

<210> 686
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 <212> DNA
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<400> 686

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caagcagcgt gccccggttg caggcgatcat gcagcgggcg cgacccacgc tctggggccgc 240
tgcgctgact ctgctgggtgc tgctccgcgg gccgcccgtg gcgcgggctg gcgcgagctc 300
gggggggcttg ggtcccgttg tgcgctgcga accgtgcgac gcgcgtgcac tggcccantg 360
cgcgccttcc gcccgccgtg tgcgccggaa cttggtgcgc caagccgggc ttgcggnatg 420
tgccctgacgt gcgcactgag cgaagggcca gccgtgcggn atctacaccg ancgctgtgg 480
nttccggnct tcgttg                                     496

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<210> 687

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

620

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<400> 687

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gncganaacn aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcgncgcg 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagattgat gacaccaata 120
tcacacgact gcagctggag acagagatcg aggctctcaa ggaggagctg ctcttcatga 180
agaagaacca cgaagaggaa gtaaaaggcc tacaagccca gattgccagc tctgggttga 240
ccgtggagggt agatgcccc aaatctcagg acctcgccaa gatcatggca gacatccggg 300
cccaatatga cgagctggct cggaagaacc gagaggagct agacaagtac tgggtctcagc 360
agattgagga gagcaccaca gtggtcacca cacagtctgc tgaggttgga gctgctgaga 420
cgacgctcac agagctgaga cgtacagtcc agtccttgga gatcgacctg ggactt 476
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<210> 688

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 688

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anantaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg gccgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc aggttcccgc ccggaagaag 120
cgaccaaagc gcctgaggac cggcaacatg gtgcggtcgg ggaataaggc agctgttggtg 180
ctgtgtatgg acgtgggctt taccatgagt aactccattc ctggtataga atccccattt 240
gaacaagcaa agaaggtgat aaccatgttt gtacagcgac aggtgtttgc tgagaacaag 300
gatgagattg ctttagtcct gtttggtaca gatggcactg acaatcccct ttctgggtggg 360
gatcagtatc agaacatcac agtgcacaga catctgatgc taccagattt tgatttgctg 420
gaggacattg aaaagcaaaa tccaaccagg ttctcaacag gctgacttcc tgggatgcac 480
taa 483
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<210> 689

<211> 339

<212> DNA

621

<213> Homo sapiens

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 689

aggcaggagg aagccgatcg aaaactcaga gaggaggaag agaagaggag gctaaaggaa 60
gagattgaaa ggcgaggagc agaagctgct gagaaacgcc agaagatgnc agaagatggc 120
ttgtcagatg acagnaaacc attcaagtgt ttcantccta aaaggttcat ctcttcaaga 180

622

```

tagaagagcg agcagatttt tgattaagtc tgtgcagaaa agcagtgggtg ttcaantcga 240
cccttcaagc agcattagtn ttccaagttt gacagcagan tggagcatnt taccatggca 300
tttgagggga ccaaaagcag ccaaaacctt aaaaaanna 339

```

```

<210> 690
<211> 594
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

```

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<400> 690
gntgctttct ccaccagaag ggcacacttt catctaattt ggggtatcac tgagctgaag 60
acaaagagaa gggggagaaa acctagcaga ccaccatgtg ctatgggaag tgtgcacgat 120
gcatcggaca ttctctggtg gggctcgccc tctgtgcat cgcggttaat attttgcttt 180
actttcccaa tggggaaaca aagtatgcct ccgaaaacca cctcagccgc ttcgtgtggg 240
tcttttcttg catcgtagga ggtggcctgc tgatgctcct gccagcattt gtcttcattg 300
ggctggaaca ggatgactgc tgtggctgct gtggccatga aaactgtggc aaacgatgtg 360
cgatgctttc ttctgtattg gctgctctca ttggaattgc aggatctggc tactgtgtca 420
ttgtggcagc ccttggctta gcagaaggac cactatgtct tgattccctc ggncagtggg 480
actacacctt tgccagcacc gagggccaag taccttctgg ataccttcac atgggtccgag 540
tgcactgaac ccaacacatt ggggaatgga atggatctct ggtttctatc ctct 594

```

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<210> 691
<211> 538
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

```

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<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

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623

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<400> 691

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ganganacna accctcacta aagggaacaa aagctggagc tccaccgcg tgcgnccgct 60
ctagaactag tggatccccc gggctgcagg aattcggcac gagcgcatga ctttgtcttc 120
tccgcacgac tgttacagag gtctccagag ccttctctct cctgtgcaaa atggcaactc 180
ttaaggaaaa actcattgca ccagttgcgg aagaagaggc aacagttcca aacaataaga 240
tcaactgtagt ggggtgttgga caagttggta tggcgtgtgc tatcagcatt ctgggaaagt 300
ctctggctga tgaacttgct cttgtggatg ttttggaaga taagcttaaa ggagaaatga 360
tggatctgca gcatgggagc ttatttcttc agacacctaa aattttggca gataaagatt 420
attctgtgac cgccaattct aagattgtag tggtaactgc aggagtccgt cagcaagaag 480
gggagagtcg gctcaatctg gtgcagagaa atgttaatgt cttcaaattc attattcc 538

```

<210> 692

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<400> 692

```

gtcattgcc acgcgcccc gacgaccgcc cgacgtgcat tcccgattcc ttttggttcc 60
aagtccaata tggcaactct aaaggatcag ctgatttata atcttctaaa ggaagaacag 120
accnccaga ataagattac agntgttggg gttggtgctg ntggnatggc ctgtgccatc 180
aanatcttaa tgaaggactt g

```

201

<210> 693
<211> 589
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (551)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (576)
<223> n equals a,t,g, or c

<400> 693
nncaaaaaagt acctaggtga cantatagaa ggtacgcctg caggtaccgg tccggaattc 60
ccgggggttgt taacttgttt attgcagctt ataatggta caaataaagc aatagcatca 120
caaatttcac aaataaagca tttttttcac tgcattctag ttgtggtttg tccaaactca 180
tcaatgtatc ttatcatgtc tggatcgatc ctgcattaat gaacggccaa cgcgcgggga 240
gaggcggttt gcgtattggc tggcgtaata ncgaaaagcc cgcaccgatc gcccttccca 300
acagttgcgc ancotgaatg gcgaatggga cgcgccctgt ancggcgcat taancggcgc 360
gggtgtggtg gttaccncaa cgtgaccgct acacttgcca ncgccctaac gcccgctcct 420
ttcncctttc tccccnccct ttctccccca cgttcgcgcc gggttncccc gtcaaaactc 480
aaatccgggg ntccccctta agggttccca atttaattgc ttaacggcac ctccaacccc 540
aaaaaaactt naataagggg tgaatggttc nntanttg gccaccccc 589

<210> 694
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<400> 694
ggcaaagcat ggggcagcga gtgtgagaaa tgccctctgc ctggcacaga ggccttcana 60
gagatctgcc ctgccggcca cggctacacc tacgcgagct ccgacatccg cctgtccatg 120
aggaaaagccg aggangaaga actggcaang cccccaaggg agcaagggca gangagcagc 180
tgggcactgc ccgggccaac ananaagcag cccctccggg ttcgtcacgg acacctggct 240
tgangccggg accatccctg acaagggtga ctctcaagct ggccagggtca cgaccagtgt 300
cactcatgca cctgcctggg tcacanggaa atgccacaan cccacccaat gcctgaacag 360
ggaattgcnn aaaattccgg aaaaaa 386

<210> 695
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
<221> misc feature

628

<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<400> 695
ggttcacagc atatattggt ggattcttgt ccatagtgc tctgctttaa gaattaacga 60
aagcagtgtc aagacagtaa ggattcaaac catttgccaa aaatgagtct aagtgcattt 120
actctctttcc tggcattgat tgggtggtacc agtggccagt actatgatta tgattttccc 180
ctatcaattt atgggcaatc atcaccaaac tgtgcaccag aatgtaactg ncctgaaagc 240
taccacaagt ccattgtactg tgatgagctg aaattganaa gtgtaccaat ggtgcctcct 300
ggaatcaagt atctttacct taggaataac cagattgacc atattgatga aaaggccttt 360
gagaatgtaa ctgatctgca gtggctcatt ctagatcaca accttctaga aaactccaag 420
atnaaaggga gagttttctc taaattgaaa caactgaana agntnntata accac 475

<210> 696
<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<400> 696
tatcaagtgt actccaaaat ccaggcaaca aacacatggc tgtttctaag tagctgtaac 60
ggaaatgaaa cttctctttg ggactgcaag aactggcaat ggggtggact tacctgtgat 120
cactatgaag aagccaaaat tacctgctca gccacaggg aaccagact ggttgagggt 180
gacattccct gttctggacg tggtgaagtg aagcatgggt acacgtgggg ctccatctgt 240
gattcagact tctctctgga agctgccagc gttctatgca gggaattaca gtgtggcaca 300
gttgtctcta tcctgggggg agctcaactt ggagaggga tggacagatc tgggctgaag 360
aattccagtg ttgagggaca tgaatcccca tctttcatct tnccagtagn aaccccgccc 420
aaaaggaact ttagaccaca gcaa 444

<210> 697
<211> 411
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<400> 697

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aacatggcgg gtgtggagga ggtagcggcc tccgggagcc acctgaatgg cgacctggat 60
ccagacgaca gggaagaagg agctgcctct acggctgagg aaanagccaa gaaaaaaga 120
cgaaagaaga agaagagcaa agggccttct gcaggtaaag agagttttat gttttcccag 180
tcccctccgg gaacggctga actgtttggc tcaggcccggt tgagggggcc gggaccgggg 240
ccccagagcc ccgactagac tgattcttgg gcctgacagg gtggcaaagc cgggctatag 300
atcanggtgc acctgagctt tctctgatgt atgcccangc agatctccag gtattcagag 360
cacctgcttn cccancctgt tagtcttagt nacccaaccc tcctgtgcan a 411
```

<210> 698

<211> 135

<212> DNA

<213> Homo sapiens

630

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<400> 698
ggcgtgggtt tccgggaggg nacctgnggg gccagaccc agcgcaccc gtgnaggggtg 60
ccctncaact ggaagatgna ttctgagccg atttcaagta caaagtttta gaacttgggg 120
tgcgtgtgat taggg 135

<210> 699
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>

631

<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<400> 699
cgtacangag ctganggnga gcgcgcctgc aggtcgacac tagtggatcc aaagantgtc 60
ngcacagttt tctctcttgg agcatgcatg gaaggcctga atattttgct taacagactg 120
ttggggattt cattatatgc agagcagcct gcaaaaggag aggtgtggag cgaagatgtc 180
cgaaaactgg ctgttggttca tgaatctgaa ggattgttgg ggtacattta ctgtgatttt 240
tttcagcgag cagacaaacc acatcaggat tgccatttca ctatccgtgg aggcagacta 300
aaaggaagat gggagactat ncaactccca gttgtaagtt cttatgctgg aatcttcccc 360
gttcccgnna gggagttctc caactttggc naangcctgg gcatgatggg aaaacctttc 420
ccagganggg ggac 434

<210> 700
<211> 435

632

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<400> 700
gccgagcgca cgccttgccg ccgccccgca gaaatgcttc ggttacccac agtctttcgc 60
cagatgagac cgggtgtccag ggtactggct cctcatctca ctcgggctta tgccaaanat 120
gtaaaatttg gtgcagatgc ccgagcctta atgcttcaag gtgtagacct tttagccgat 180
gctgtggccg ttacaatggg gccaaaggga agaacagtga ttattgagca gagttgggga 240
agtcccaaag taacaaaaga tgggtgtgact gttgcaaagt caattgactt aaaagataaa 300
tacaagaaca ttggagctaa acttgttcaa gatgttgcca ataacacaaa tgaagaagct 360
ggggatggca ctaccactgc tactgtactg gcacgctcta tagccaagga aggcttcgag 420
aagattagca aaggt 435

<210> 701
<211> 406
<212> DNA
<213> Homo sapiens

<400> 701
aaaatttggt gcagatgccc gagccttaat gcttcaaggt gtagaccttt tagccgatgc 60
tgtggccggtt acaatggggc caaagggaag aacagtgatt attgagcaga gttggggaag 120
tcccaaagta acaaaagatg gtgtgactgt tgcaaagtca attgacttaa aagataaata 180
caagaacatt ggagctaaac ttgttcaaga tggtgccaat aacacaaatg aagaagctgg 240
ggatggcact accactgcta ctgtactggc acgctctata gccaaaggaag gcttcgagaa 300
gattagcaaaa ggtgctaatac cagtggaaat caggagaggt gtgatgttag ctgttgatgc 360
tgtaattgct gaacttaaaa agcagtctaa acctgtgacc acccct 406

<210> 702
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

633

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<400> 702
tgtgagttca agcgggtgcc gcagtgtccc agcgggaggg tctacgtgct gaagttcaag 60
gcaggggtcca agcgggtttt cttctggatg caggaaccca agacagacca ggatgaggag 120
cattgccgga aagtcaacga gttatctgga acaaccccc gatgcctggg gcaactggggg 180
ccagcgggaac agcggccacg aantctctgc gctangcggg tgagggtggcn tgcagagcnt 240
gctggggaaa cntgagccac agccag 266

<210> 703
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
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<400> 703
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ataaaaatgac agtttgaaca tacaaaaccc accccattcc tccccacact catcgccctt 120

634

```
accacgctac tcctacctat ctcccctttt atactaataa tcttataaaa aaaaaaaaaa 180
aaaaaaaaaa aaangggggg gccgggnncc nattingccc aaaggggggg gggttttaaaa 240
ttca                                         244
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<210> 704
<211> 462
<212> DNA
<213> Homo sapiens

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gcccacctgg tccggcgcta cctgggcgat gcctcgggtg ancccgaccc cctgcagatg 120
ccaaccttc cgccagacta cgcttcccc gaacgcaagg ancgcganat ggtggccaca 180

637

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cancangana tgatggacgc gcactnaagc tccanctgcg ggantactgc gcccaccaac 240
tcatccgggt gctcaattnc aaccttaaan cttccccccac ttccttggct tgcnaaccag 300
gaacgggaca aatnggaata ntnccaaaca ccccanaant tttnttnccc ttaaanantt 360
tttaaacgga aacgaagggt ntcccccccg gaaaaaaaaac nggggnaaaa aaaggggaaa 420
ttttttnccc cccccccgcc cgnggaaatt ttcccccccg tt 462
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<210> 705

<211> 436

<212> DNA

<213> Homo sapiens

<400> 705

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ggtgttgccg ctttataagc gggcgctacg ccacctcgag tcgtggtgcg tccagagaga 120
caaataccga tactttgctt gtttgatgag agcccggttt gaagaacata agaatgaaaa 180
ggatatggcg aaggccaccc agctgctgaa ggaggccgag gaagaattct ggtaccgtca 240
gcatccacag ccatacatct tccctgactc tcctgggggc acctcctatg agagatacga 300
ttgctacaag tcccagaat ggtgcttaga tgactggcat ccttctgaga aggcaatgta 360
tcctgattac tttgccaaaga gagaacagtg gaagaaactg cgggagggaa agctgggaac 420
gagaggttaa gcagct 436
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<210> 706

<211> 487

<212> DNA

<213> Homo sapiens

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640

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tntctgntgn aagattgccca cttgatgccg ccaaacgatt ncatgatgag ctgggnaatg 180
aaagaccttn tgcttacatg anggagcaca atcaattaaa tggctggtnt tctgatgaaa 240
atgactggaa tgaaaaactc taccacagtgt ggaagcggng agacatgang tngaaaaaac 300
tgctggaagg gagggccgtg tgcaaggcgg tcctgaccag ngactnacca acccttgng 360
ggctcaaata naacattngc cggngaacct gatattccct aaangccaaa aggaagaagc 420
caatggcaac ataggctatg anaagaactg ganaaatgaa gctgggntaa acagctgaac 480
canaagg 487

<210> 707
<211> 414
<212> DNA
<213> Homo sapiens

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<220>
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641

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 <222> (402)
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 tatctttttcg gttgtgaact aaaggccgac aaagattatc actttaaggt ggataatnat 180
 gaaaatgagc accagttatc tttaagaacg gtcngtttng gggctgggtgc aaaggatgag 240
 ttgcacattg ttgaagcaga ggcaatgaat tacgaaggca gtccaattaa agtaacactg 300
 gcaactttga aaatgtctgt acagccaacg gttttccctt tgggggcttt gaataacacc 360
 accangncc ttaaggttga antgtggttc agggccatgc cnattagnng acag 414

<210> 708
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642

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gctttctttt taatcccctg catcggatca ccggcgtgcc ccaccatgtc agacgcagcc 180
gtagacacca gctccgaaat caccaccaag gacttaaagg agaagaagga agttgtggaa 240
gaggcagaaa tggaagagac gccctgctaa cgggatgcta atgaggnaat ggggagcagg 300
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<210> 709
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<212> DNA
<213> Homo sapiens

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643

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gtcgacccac gngtcgcgtn cggtggtgaa caagtctcca gcaccatn tggtttgtct 120
ggccccacat cccggcgngg accttttccg ttagcgtggg tgatattgtt cctgctcgag 180
gcncaaatng gtccttggn tctccttcca tctgcccatt aactctcgca agtgcctccg 240
ngaggaaatt cnc 253

<210> 710
<211> 496
<212> DNA
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caatgatgct tttaagggaa tgactagtga agaaaaagaa attctgatac gggacaaaaa 120
tgctcttcaa aacatcattc tttatcacct acaccaggag ttttcattgg aaaaggattt 180
gaacctgggtg ttactaacat ttttaaagac cacacaaggn agcaaaatct ttctggaagg 240
aagtgaatg gttacacttc tggatgaatg atttggaat ccaaaagant ctgacatcca 300
tgggccacca anggtggtaa tttcatgttg taggttaaac tncncttttc cagcagnac 360
accttttggg natgntcaa ctggtnggga tacttgatta ttnatncaa tnnctcccn 420
atttaaggtt ttttcgggg tgggccctt caagggaatn ccngggctnt ttttnacac 480
ctnaattttt tcccc
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<210> 711

<211> 461

<212> DNA

<213> Homo sapiens

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tgcccagtgt atcttggatg ctgctttcct gcctcatgct gctgtctcag gttcaagggtg 180
aagaacccca gagggaaactg ccctctgcac ggatccgctg ncccaaaggc tccaaggcct 240
atggctccca ctgctatgcc ttgtttttgt caccaaaatc ctggacagat gcagatctgg 300
cctgccagaa gcgggccctct ggaaacctgg tgtctgngct cagtggggct gagggatcct 360
tcgngcctcc ctggtgaaga gcattggtaa cagctactca tacgtctgga ttgggctcca 420
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<211> 392

<212> DNA

<213> Homo sapiens

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<222> (368)

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<222> (389)

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tgggtctcggg gacctccgca gcagctcccc agggcccacg ggccagcccc gccgccctcg 180
caacctggca gccgccgccg tggaagagca gtatagctgt gactatggat ctggcagatt 240
ctttatcctt tgtggacttg gaggaattat tagctgtggc acaacacata cagcattggt 300
tcctctagat ctggttaaata gcagangcag gtttggtttt gcatgctgga cttagagcna 360
ttgaagcntg actgangtta agtattagna ta 392

<210> 713

<211> 734

<212> DNA

<213> Homo sapiens

<220>

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aggatcacca gataccaggg tgtaatctt tatgtgaaaa atcttgatga tggattgat 120
gatgaacgtc tccgaaaaga gttttctcca tttggtacaa tctactagtgc aaaggttatg 180
atggagggtg gtcgcagcaa agggtttggt tttgtatggt tctcctcccc agaanaagcc 240
actaaagcag ttacanaaat gaacggtaga attgtggcca caaagccatt gtatgtagct 300
ttagctcagc gcaaagaaga gcgccaggct cacctcacta accagtatat gcagagaatg 360
gcaagtgtac gancgtgtcc caaccctgta atcaaccct accagccagc acctccttca 420
ggttacttca tggcagctat cccacagact cagaacgtgc tgcatactat cctcctagcc 480
aaattgctca actaanacca agtcctcgct ggactgctca gggtgccata actcatccat 540
tccaaaatat gcccggtgct atccgcccag ctgtccttan aacaccattt agtactatga 600
naacagcttc ttctcagcaa catcttaatg cacagccaca anttacaatg cacancctgc 660
tgttcatggt caaggtcagg aacctttgan tgcttccatg ttngcatctg ccccccccca 720
aaacaaaacc aatt 734

<210> 714
<211> 500
<212> DNA
<213> Homo sapiens

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650

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tctagcaact agtggatccc ccgggcctgt caggaattcg gcacgagctg ggacaagcga 120
gttttttaaac aaagtgactg aggcacagga agatggccag tcaacttctg aattgattgg 180
ccagtttggt gtcggtttct attccgcctt ccttgtagca gataaggtta ttgtcacttc 240
aaaacacaaac aacgataccc agcacatctg ggagtctgac tccaatgaat tttctgtaat 300
tgctgaccga agaggaaaca ctctaggacg gggaacgaca attacccttg tcttaaaaga 360
agaagcatct gattaccttg aattggatac aattaaat ctcgtcaaaa aatattcaca 420

gttcataaac tttcctatatt atgtatggng cagcaagact gaaactgttn aggagcccat 480
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<210> 715
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 cagccctcat ctctgcagct gttatcgga ccacatttga gggacgcgct atttacctcc 180
 tgaaggttgg caaagctgga caaaataagc ctgccatttt catggactgt gggtttccca 240
 tgccaganan ttggatttct ccctgcattc ngccagtnng tttntaaaa aangcgggtc 300
 ccttcctatn gacntttana ncccanttga caaacttcnc caacaattta aanttttatn 360
 ttcccgccct gtggcccca tattgaagg caacttcnac cccgggaacn aaaacccaat 420
 tntggaaaaa aaaaccccc cccccctgg tgggattctt gctttggttg ggnnccaccc 480
 caaaaaaatt t 491

<210> 716
 <211> 331
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 <213> Homo sapiens

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<220>
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 ccagccagag ggccgagagc cgcgggggaga aggccatcac ccaggtcagc aagggcacct 180
 gcgagcaagg tccttccata gtgacgcccc ccaaggacat ctggaatgtc actggtgccc 240
 angtgtactt gagctgtgag gtcacgga tcccgcacacc tgcctcatc tggaacaagg 300
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<210> 717
 <211> 486
 <212> DNA
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<220>
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655

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 gtgagcgggtg gtgggtttatt cttccgtgga gttaagggtc cgtggacat ctcaggtcctt 180
 cagggtcttc catctggaac tatataaagt tcagaaaaca tgtctcgaga tatgactcca 240
 ggaccactat attttctcca gaaggctcgt tataccaagt tgaatatgcc atggaagcta 300
 ttggacatgc aggcacctgt ttgggaattt tagcaaata tgggtgttttg cttgcagcag 360
 agagacgcaa catccacaag cttcttgatg aagtcctttt ttctgaaaaa atttataaac 420
 tcaatgagga catggcttgc agtgtggcag gcataacttt ctgatgctaa tggtctgact 480
 aatgac 486

<210> 718
 <211> 479
 <212> DNA
 <213> Homo sapiens

<220>
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656

accctcaact cagatggata cacccttgag ccagacaaac cgcgccgat gcccatggac 120
acgagcgtgt atgagagccc ctacagcgac ccagaggagc tcaaggacaa gaagctcttc 180
ctgaagcgcg ataacctcct catagctgac attgaacttg gctgcggcaa ctttggtca 240
gtgcgccagg gcgtgtaccg catgcgcaag aagcagatcg acgtggccat caaggtgctg 300
aagcagggca cggagaaggc agacacggaa gagatgatgc gcgaggcgca gatcatgcac 360
cagctggaca acccctacat cgtgcggctc attggcgtct gccaggccga agccctcatg 420
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<210> 719

<211> 572

<212> DNA

<213> Homo sapiens

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<222> (418)

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<222> (559)

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gatgattgtc atagaactgg gcaccaatcc gctgaagagc tcaggaattg aaaatggggc 120

657

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tttccagga atgaagaagc tctcctacat ccgcattgct gataccaata tcaccagcat 180
tcctcaaggc cttcctcctt cccttacgga attacatctt gatggcaaca aaatcagcag 240
agttgatgca gctagcctga aaggactgaa taatttggct aagttgggat tgagtttcaa 300
cagcatctct gctgttgaca atggctctct ggccaacacg cctcatctga gggagcttca 360
cttggaacac aacaagctta ccagagtacc tgggtgggctg cagagcataa agtacatnca 420
nggtggctac cttcataaca accatatctc tgtagttgga tcaaagtgac ttctggccac 480
ctggacacaa ccacccaaaa ngnttcttaa ttccgggtgg gaagcntttt aacaaaccgc 540
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<210> 720

<211> 487

<212> DNA

<213> Homo sapiens

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<222> (3)

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<222> (376)

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<222> (468)

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<400> 720

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tgtcagtgtg tagaggggttc tttggatgta gacacttttc aaagaccaat gagctgctgc 180
agaagtctgg caagaagccc attgactgga aggagctgtg atcatcagct gaggggtggc 240
ctttgagaag ctgctgttaa cgtatttgcc agttacgaag ttccactgaa aattttccta 300
ttaattctta agtactctgc ataaggggga aaagcttcca gaaagcagcc atgaaccagg 360
ctgtccagga atggancctg tatccaacca caaacaacaa aggctaccct ttgacccaaa 420
tgtctttctc tgcaacatgg cttcggcncta aaatatgcnn aagacannat gagggccaat 480
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<210> 721

<211> 464

<212> DNA

<213> Homo sapiens

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<222> (222)

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<222> (312)

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<222> (347)

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<220>

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<222> (349)

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<222> (436)

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659

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gccgccgtct cccgcgtgct gtctggcgct tctcagaagc cggcaagcag agtgctggta 180
gcatcccgtgta attttgcaaa tgatgctaca tttgaaatta anaaatgtga ccttcaccgg 240
ctggaagaag ccctcctgtc acaacagtgc tcaccaaggg aagatgggct caaatactac 300
aggatgatgc anactgtacc cgaatggaat tgaaacagat cactgtntna acagaaaatt 360
atcntgggtt ctgtccttgt gtgatgtcag aacttgctgt gtggcctgga gccgnatcac 420
cccaaact ctccanctac ggntccgntt atttnccggg cttc 464

<210> 722
<211> 320
<212> DNA
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<222> (113)
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<220>
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660

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<220>

<221> misc feature

<222> (153)

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<222> (182)

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<222> (211)

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<222> (299)

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<222> (308)

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<400> 722

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agtcgggtcag cgccggatga cctcagcagc catgtcgaaag ccccatagtg aanccgggac 120
tgccttcatt cagacccagc anctgcacgc anncatggct gacacattcc tggagcacat 180
gngccgcctg gacattgatt caccacccat nacaggccgg aacactggca tcatctgtac 240
cattggccca gcttcccgat cangtgagga cggtnaagga natgattaaa gcctggaang 300
aatgtggntc gtctgaactt                                     320
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<210> 723

661

<211> 152
<212> DNA
<213> Homo sapiens

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<222> (111)
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<222> (127)
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<222> (148)
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gacctgcctc ctcacgtnt tcagcangga tcagtttccg gaggtctacg nccctactgt 120
cctttgngaa ctatattgcg cacattgngg cg 152

<210> 724
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (463)
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<220>
<221> misc feature
<222> (514)
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<220>
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662

<222> (553)
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<220>
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<220>
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 aaaattgcat ctgatggctc caagggctcg gtgtttgaag tgagtcttgc tgatttgag 120
 aatgatgaag ttgcatttag aaaattcaag ctgattactg aagatgttca gggtaaaaac 180
 tgcctgacta acttccatgg catggatctt acccggtgaca aaatgtgttc catggtcaaa 240
 aaatggcaga caatgattga agctcacgtt gatgtcaaga ctaccgatgg ttacttgctt 300
 cgtctgttct gtgttggttt tactaaaaaa cgcaacaatc agatacggaa gacctcttat 360
 gctcagcacc aacagggtccg ccaaatccgg aagaagatga tggaaatcat gacccgagag 420
 gtgcagacaa atgacttgaa agaagtggtc aataaattga ttncagacgc attggaaaag 480
 acatagaaaa ggcttgga tctattatcc tctncatgat ggcttcgtta gaaaagtaaa 540
 aatgctgaag aanccaagnt tgaatgggna aac 573

<210> 725
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (9)
 <223> n equals a,t,g, or c

<400> 725
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 tctagaacta gtggatccc cgggctgcag gaattcggca cgagtcctgg tccgcgccag 120
 agcccagcgc gcctcgtcgc catgcctcgg aaaattgagg aaatcaagga cttcctgctc 180
 acagcccgc gaaaggatgc caaatctgtc aagatcaaga aaaataagga caacgtgaag 240
 tttaaagtgc gatgcagcag atacctttac accctgggtc tctactgacaa agagaaggca 300
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 cacactgatt ggaactgtat tatattaaaa tactaaaaat cct 403

<210> 726
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

<222> (7)
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<220>
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<222> (8)
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<220>
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<222> (428)
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<220>
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<222> (456)
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aagccaagat ggggtgcatac aagtacatcc aggagctatg gagaaagaag cagtctgatg 180
tcattgcgctt tcttctgagg gtccgctgct ggcagtagcc ccagctctct gctctccaca 240
gggctccccg cccanccgg cctgataaag cgcgcccact nggctacaag gccaagcaag 300
gttacgttat atataggatt cgtgttcgac gtgggtggccg aaaacgcca gttcctaagg 360
gtgcaattac ggcaagcctn tccatcatgg ngttaaccag cttaaagttg ctcgaagcct 420

664

tcagtccntt gcagaggagc gagctggacg ccactntggg gctctgagag tcctgaattc 480
ttactggggtt ggtgaagatt cc 502

<210> 727

<211> 361

<212> DNA

<213> Homo sapiens

<220>

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<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 727

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gtagtgggtc gctgcctgcc ccccccaaa tgccacacgc cgcccctcta ccgcatgcga 120
atctttgcgc ctaatcatgt cgtcgccaag tcccgcttct ggtactttgt atctcagtta 180
aagaagatga agaagtcttc aggggagatt gtctactgtg ggcaggtgtt tgagaagtcc 240
ccoctgcggg tgaagaactt cgggatctgg ctgcgctatg actcccggag cggcacccac 300
aacatgtanc gggaaatanc ggacctgacc aacgcaggcg ctgtcaacca gtgtaacggn 360
g 361

<210> 728

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

665

<220>
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<222> (234)
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<220>
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<222> (251)
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<220>
<221> misc feature
<222> (319)
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<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

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<222> (360)
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<221> misc feature
<222> (389)
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gggctgatca tccgcaagcc tgtgacggtc cattcccggg ctcgatgccg gaaaaacacc 180
ttggcccgcc ggaaaggcan gcacatgggc atagttagcg gaaagggtaca gccnatgccc 240
gaatgccaaa naagggtcaca tggattaaga aaatgaagat tttgcgcccg ctgctcaaaa 300
aatacgtgaa tcttaaaana tcgatcgcca cntntttcac agcctgttcc taaagttaan 360
ggaatttttt caaaaacaac cgattctcnt ggaacacttc c 401

<210> 729
<211> 530
<212> DNA
<213> Homo sapiens

<220>

666

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<220>
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<222> (527)
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<400> 729
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ccgctctaga actagtggat cccccgggct gcaggaattc ggacagagcc gccatcttcc 120
agtaattcgc caaaatgacg aacacaaagg gaaagaggag aggcacccga tatatgttct 180
ctaggccttt tagaaaacat ggagttgttc ctttggccac atatatgcga atctataaga 240
aagggtgatat tgtagacatc aagggaatgg gtactgttca aaaaggaatg cccacaagt 300
gttaccatgg caaaactgga agagtctaca atgttaccga gcatgctgtt ggcattgttg 360
taaacaaca agttaagggc aagattcttg ccaagagaat taatgtgcgt attgagcaca 420
ttaagcactc taagagccga gatagcttcc tgaaacgtgt gaaggaaaat gatcagaaaa 480
agaaagaagc caaagagaaa ggtacctggg ttcaactaaa gcgccancct 530

<210> 730
<211> 375
<212> DNA
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<220>
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<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
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<222> (87)
<223> n equals a,t,g, or c

<220>
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<222> (97)
<223> n equals a,t,g, or c

<220>
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<222> (111)
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<220>
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<220>
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<220>
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<220>
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<220>
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<222> (190)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (206)
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<220>
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<222> (229)
<223> n equals a,t,g, or c

<220>
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<222> (241)
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<220>
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<220>
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<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<400> 730

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tggacgctac tccggacgca aagctgntca tcgtaanaga acattgaatg ntggcacctc 120
naanngccccc tacagccatg cncgtggtggc tgggaattga accgctaccc ccgcaaataga 180
ncngctgccn tgggggcanga agaagntcgc caggagggtca aagatatant cttttgtgaa 240
ngtgtgtnac tacaatcacc tnatgccnc aaggtactct gtgngatatt ccccttgggg 300
caaagctgta cgttcattag gntgtcttcc ganattcctg gctcttaaac gctnggcccg 360
aaggagnccc aggtc                                     375
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<210> 731

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

670

<400> 731

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gcgccgctgc gaagggagcc gccgccatgt ctgcgcatct gcaatggatg gtcgtgcgga 60
actgtccag tttcctgac aagaggaata agcagacctc cagcactgag cccaataact 120
tgaaggcccg caattccttc cgntacaacg gactgattca ccgcaagact gtgggcntgg 180
agccggnagc cgacggcaaa nggtgctn 207
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<210> 732

<211> 702

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (655)

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<220>

<221> misc feature

<222> (686)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (690)

<223> n equals a,t,g, or c

<400> 732

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gaagtggtaa cccgagaata caccatcaac attcacaagc gcatccatgg agtgggcttc 120
aagaagcgtg cacctcgggc actcaaagag attcggaaat ttgccatgaa ggagatggga 180
actccagatg tgcgcattga caccaggctc aacaaagctg tctgggccaagggaataaagg 240
aatgtgccat accgaatccg tgtgcggctg tccagaaaac gtaatgagga tgaagattca 300
ccaaataagc tatatacttt ggttacctat gtacctgtta ccactttcaa aaatctacag 360
acagtcaatg tggatgagaa ctaatcgctg atcgtcagat caaataaagt tataaaattg 420
caaaaaaaaa aaaaaagggc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 480
gacgtcatag ctcttctata gtgtcaccta aattcaattc actgccgtcg gtttacaacg 540
```

671

tcgtgactgg gaaaaccctg cgttacccaa cttaatcgcc ttgcagcaca tcccctttcg 600
ccagctgcgt aataacgaan aggcccgnc cgatcgcc ttccacagttg cgcancctga 660
atggcgaatg gacgcgcctt taccgngcan taagcgccgc gg 702

<210> 733
<211> 441
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
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<222> (118)
<223> n equals a,t,g, or c

<220>
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<222> (126)
<223> n equals a,t,g, or c

<220>
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<220>
<221> misc feature

672

<222> (185)
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<220>
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 <222> (212)
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 <222> (260)
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<220>
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 <222> (310)
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<220>
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 <222> (356)
 <223> n equals a,t,g, or c

<400> 733
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 anctagtggg tcccccgggc tgcaggattt cggcacganc ncgtgcagat tcgagcanag 120
 gagcgnaagg gaacgtcatc gtttggaaag cntcgcaata agacgcacac gttgtgccgc 180
 cgctntggct ctaaggccta ccaccttcag angtcgacct gtggcaaatt tggctaccct 240
 gccaaagcga agagaaagtn taactggagt gccaaaggcta aaagacgaaa taccaccgga 300
 actggtcgan tgaggcacct aaaatttgta taccgcagat tcaggcatgg tttccntgaa 360
 ggaacaacac ctaaacccaa gagggcagct gttgcagcat ccagttcatc ttaagattgt 420
 caacgattag tcatgcaata a 441

<210> 734
 <211> 379
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (42)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (323)
 <223> n equals a,t,g, or c

<220>
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 <222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<400> 734

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ggccgcagaa gcgagatgac gaagggaacg tcatcgtttg gnaagcgtcg caataagacg 60
cacacgttgt gccgcgcgtg tggctctaag gcctaccacc ttcagaagtc gacctgtggc 120
aaatgtggct accctgccaa gcgcaagaga aagtataact ggagtgccaa ggctaaaaga 180
cgaaatacca ccggaactgg tcgaatgagg cacctaaaaa ttgtataccg cagattcagg 240
catggattcc gtgaaggaaac aacacctaaa cccaagaggg cagctgttgc agcattccag 300
ttcatcttta agaatgtcaa cgnnttttagt catgcaataa antgtnctgg ggttttaaaa 360
aattaaaaga aaagnaanaa 379

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<210> 735

<211> 187

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

674

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<400> 735
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aaattgaaat cagccagcac gccaaagtaca cttgctcttt ctgtggcaaa accaagatga 120
agagacgagc tgtggggatc tggcactgtg gttcctgcat gaagacagtg gntggngng 180
cctgnac 187

<210> 736
<211> 576
<212> DNA
<213> Homo sapiens

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<222> (94)
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<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
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<222> (340)
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<220>
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<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
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<222> (397)
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<222> (409)
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<220>
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<222> (429)
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<220>
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<222> (436)
<223> n equals a,t,g, or c

<220>
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<222> (440)
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<220>
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<222> (444)
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<220>
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<222> (452)
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<220>
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<222> (466)
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<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<220>
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<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c

<400> 736

676

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tcgacccacg cgtccgcccac cgctccggcc tcagccctac cagcactggt catgtctaaa 60
gggtcatcgta ttgaggaagt tcctgaactt cttntggttag ttgaagataa agttgaaggc 120
tacaagaaga ccaaggaagc tgttttgctc ctttaagaaac ttaaagcctg ggaatgatat 180
caaaaaggtc tatgcctctc agcgaatgag agctgggcaa aggcaaaatg gagaaaccgt 240
cgccgtatcc agcgcagggc ccgtgcatca tctataatga ggataatggt atcatcaagg 300
ccttccagaa acatccctgg aattactctg cttnaatgtn aagcaagctg aaacattttg 360
naagcttgct ncctggtggg gcatgtgggg acgtttncgg cattgggang gaaatggctt 420
ttccgggant ttaganggan tgtnacgggc antgggcgta aagcgntttc cctccaagn 480
ttaactacan tcttcccagg caccaagatg gattaatana gatcttggca gaatctggaa 540
aagcccagag gtnccaaggg cccttcgggc accagc 576

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<210> 737

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

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<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (254)

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<220>

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<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<400> 737

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gctccgncat ggcgtgtgct cgcccactga tatcgggtga ctccgaaaag ggggagtcac 60
ctggcaaaaaa tgtcactttg cctgctgtat tcaaggctcc tattcgacca gatattgtga 120
actttgttca caccaacttg cgcaaaaaca acagacagcc ctatgctgtc agtgaattag 180
cagggtcatca gactagtgtc gagtcttggg gtactggcag agctgtggct cgaattccca 240

```

ganttcgagg tggnggggact naccgntctg gccanggtgc ttttggaac atgtgtc 297

<210> 738

<211> 354

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

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<220>

<221> misc feature

<222> (80)

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<220>

<221> misc feature

<222> (84)

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<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (120)

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<222> (148)

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<220>

<221> misc feature

<222> (193)

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<220>

<221> misc feature

<222> (286)

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678

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 <221> misc feature
 <222> (303)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (329)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (351)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (353)
 <223> n equals a,t,g, or c

<400> 738
 gcgagaatga agactattct cagcantcag actgtcgaca ttccagaaaa tgctcgacatt 60
 actctgaagg gacncacagn tatngtgaag ggcccccag gaaccctgcg gagggacttn 120
 aatcacatca atgtataact cagccttntt ggaaagaaaa aaaagaggct ccgggttgac 180
 aaatggtggg gtnacagaaa ggaactggct accgttcgga ctattttag tagatgtacag 240
 aacatgatca aggggtgttac actgggcttc cgttacaaga tgaggncgtg gtatgtctac 300
 ttncccatca acgttggttat ccaagagant gggctctattg ttgaaatcca nant 354

<210> 739
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 739
 ccgccatcat ggggtcgcatg catgctcccc ggaagggcct gtcccagtcg gctttaccct 60
 atcgacgcag cgtccccact tgggtgaagt tgacatctga cgacgtgaag gagcagattt 120
 acaaaactggc caagaagggc cttactcctt cacagatcgg tgtaatcctg agagattcac 180
 atggtgttgc acaagtacgt tttgtgacag gcaataaaaat tttaagaatt ctttaagtcta 240
 agggacttgc tcctgatctt cctgaagatc tctaccattt aattaagaaa gcagttgctg 300
 ttcgaaagca tcttgagagg aacagaaagg ataaggatgc taaattccgt ctgattctaa 360
 tagagagccg gattcacctg ttggctcgat attataagac caagcgagtc ctccctccca 420
 attggaaata tgaatcatct acagcctctg ccctggctcg ataaatttgt ctgtgtactc 480
 aagcaataaa atgattgttt aact 504

<210> 740
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 740

679

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ggacccgcca acatgggccc cgttcgccacc aaaaccgtga agaaggcggc ccgggtcatc 60
atagaaaagt actacacgcg cctgggcaac gacttccaca cgaacaagcg cgtgtgagag 120
gagatcgcca ttatccccag caaaaagctc cgcaacaaga tagcagggtta cgtcacgcat 180
ctgatgaagc gaattcagag aggcccagta agaggatatct ccatcaagct gcaggaggag 240
gagagagaaa ggagagacaa ttatgttcct gaggtctcag ccttgatca ggagattatt 300
gaagtagatc ctgacactaa ggaaatgctg aagcttttgg acttcggcag tctgtccaac 360
cttcagtcac tcagcctaca gttgggatga tttcaaaac 399

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<210> 741

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 741

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aaacaacggt cgtgccaaaa agggccgcgg ccatgtgcag cccattcgct gcacgaactg 60
cgcccgggtgc gtgcccaagg ataaggccat caagaagttt gtcattcgga acattgtaga 120
agccgctgct gtcagggaca tatctgaagc aagcgtcttc gacgcctacg tgcttcccaa 180
gctctatgtc aagctgcatt attgcgtgac tgtgccatcc atagcaaggt tgtaggaat 240
cgatcccgcg aagcccggaa ggaccgaaca cccccaccac gattcagacc tgctggcgct 300
gcaccttcga cctccaccaa agcccatgta aagangccgt ttttgtaagg acggaaggaa 360
aattaccttg gaaaaataaa atggaagttg tantttttaa aaaaaaaaaa aaaccnagg 420
ggggncccg c 431

```

<210> 742

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<400> 742

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gtgcagcggg  tcattaaaat  cgatggcaag  gtccgaactg  atataaccta  ccctgctgga  60
ttcatggatg  tcatcagcat  tgacaagacg  ggagagaatt  tccgtctgat  ctatgacacc  120
aagggtcgct  ttgctgtaca  tcgtattaca  cctgaggagg  ccaagtacaa  gttgtgcnaa  180
gtgagaaaga  tctttgtggg  cacaaaagga  atccctcatc  tgggtgactca  tgatgcccgn  240
accatccgct  accccgatcc  cctcatcaag  gtnaatgatc  cattcatatt  gatttanaga  300
ctggcaagat  tactgatttc  atcnatttcg  acactggtaa  cctgtgtatg  gnnactg     357
```

<210> 743

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

681

<221> misc feature
 <222> (77)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (115)
 <223> n equals a,t,g, or c

<220>
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 <222> (122)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (158)
 <223> n equals a,t,g, or c

<220>
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 <222> (200)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (215)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (221)
 <223> n equals a,t,g, or c

<220>
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 <222> (248)
 <223> n equals a,t,g, or c

<400> 743
 ggggcggtat gccgccaaac gcttccgcaa agctcagtggt cncattgtgg agcgccctcac 60
 taactccatg atgatgnacg ggcgcaacaa cggcaagaag ctcatgactg tgcgnatcgt 120
 cnagcatgcc ttcgagatca tacgcctgct cacaggcnaa gaaccctctg caggtccttg 180
 tgaacgccat catcaacatn ggtccccggg aagantccac ncgcattggg cgcgccggga 240
 ctgttgana 249

<210> 744
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 744
gaagaattgc atcgtgctca tcgacagcac accgtaccga cagtgggtacg agtcccacta 60
tgcgctgccc ctggggccgca agaaggggagc caagctgact cctgaggaag aagagatttt 120
aaacaaaaaa cgatctaaaa aaattcagaa gaaatatgat gaaaggaaaa agaatgccaa 180
aatcagcagt ctccctggagg agcagttcca gcagggcaag cttcttgctg gcacgccttc 240
aaggccggga cagtgtggcc gagcagatgg ctatgtgcta gagggcaaag agttggagtt 300
ctatcttagg aaaatcaagg cccgcaaagg caaataaatc cttgttttgt cttcacccat 360
gtaataaagg tgttttattgg ttt 383

<210> 745

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<400> 745

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gcgcacgatg cctggagtta ctgtaaaaga cgtgaaccag caggagttcg tcagagctct 60
ggcagccttc ctcaaaaagt ccgggaagct gaaagtcccc gaatgggtgg ataccgtcaa 120
gctggccaag cacaaagagc ttgctcccta cgatgagaac tggttctaca cgcgagctgc 180
ttccacacgc cggcacctgt acctccgggg tggcgctggg gttggctcca tgaccaagat 240
ctatggggga cgtcagagaa acggcgctcat gccagccac ttcagccgag gctccaagag 300
tgtggcccg cggntcctcc aagccctngg agngngctgaa aatggtggaa anggaccaag 360
atggcgggcc gcaaactgac acctcagggg caaagagatc tgnacagaat cgccgnacag 420
gtggcagcnt gccancaaag aagcattaga nc 452
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<210> 746

<211> 114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

684

<223> n equals a,t,g, or c

<400> 746

tgcattgctgg ngctgggtcct gnccttgctg tcctccagct ctgctgagga gtacntgggc 60
ctgtctgcaa accaatgtgc cgtgncagcc aaggacangg tgnactgtgg ctac 114

<210> 747

<211> 165

<212> DNA

<213> Homo sapiens

<400> 747

ggcacagcca cccagggcct gagtcctgtc cacaccccag gtgacggccg gctccacaag 60
gcagtgagcg tgggcccccg ggtgcacatc attgaggagc tgcagatctt ctcattcgga 120
cagccctggg cagaatctgc tcctgggaca cccacagggg ggctg 165

<210> 748

<211> 583

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

685

<220>
 <221> misc feature
 <222> (480)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (537)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (541)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (543)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (546)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (580)
 <223> n equals a,t,g, or c

<400> 748
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 aagagcactg gactccggaa ggacacagca ttgttggttt tgccatgtac tattttacct 120
 atgaccctgt gattggcaag ttattgtatc ttgaggactt cttcgtgatg agtgattata 180
 gaggccttgg cataggatca gaaattctga agaattctaag ccagggtgca atgagggtgtc 240
 gctgcagcag catgcacttt tttggttagca gaatggaatg aaccattcat naacttctat 300
 aaaagaagag gtgcttctga tctgtccagt gaagaagggt ngagacttgt taagaatoga 360
 caaggagtct tgctaaaaat ggcaacntag gagtgaggaa tgcttgctgt agatgacaac 420
 ctccattcta ttttagaata aaattcccca actttctntt gntttcttat gctgggttgg 480
 agtgaaatta atttaaata gcaccattt caaaagcttt aattaccaag tgggcgnttg 540
 ntncctgtgt ttgaaaattg aaggtcttgt tttaaaaggg ggc 583

<210> 749
 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

687

<400> 749

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acnccggaggc ttcttnatta cggncggggnn tgatgagggg aagctggtga cgcctgcagg 60
tgaccgggtcc ggaattcccg ggctcgaccca cgcgtccggg cgtgatgtct cacagaaagt 120
tctccgctcc cagacatggg tccctcggtt tcctgcctcg gaagcgcana gcaggcatcg 180
tggaaggtg aagagcttcc ctaaggatga cccgtccaag ccggtccacc tcacagcctt 240
cctgggatac aaggctggca tgactcacat cgtgcgggaa gtcgacaggc cgggatccaa 300
ggtgaacaag aaggagggtg gtggaggctg tgaccattgt anagacacca nccatggtg 360
tttgtgggca ttgttngcta cgttggaana ccctcgangg ctccggaact tcaagaatn 419
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<210> 750

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

<223> n equals a,t,g, or c

<400> 750

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ggccgaacat ggagatcaag attatatctg gcaactgcatt gatctcttct tagatttcat 60
tactgtcttc agaaaactca tgatgatcct ggccatgaat gaaaaggata agaagaaaga 120
gaagaaatga agtgaccatc cagcctttcc caattagact tcctctcctt ccacccctca 180
tttccttttt gcacacatta cagggtggtg gttctgtgat aatgaaaagc atcagaaaag 240
cttttgtact ttgtggtttc ctctattttg aattttttga tcaaaaaact gatttagcaga 300
atatagtttg gagtttggtc tcactctcct ggggttcccc tcaactccctt ttttggcaac 360
cccatctgta gcctcttcct ctactcaggc agtcgacccg ccacgatgag aagtgggacc 420
agcagagggc gccaaactca ggagcccgtc ttnccaccca gcttcattca cccantggac 480
ctgaactgtt tgggtananc ccnccgg 507
```

<210> 751

<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)

690

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<400> 751

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nactggaagt nctccgggag aanggatctc nacngcgggtg ccggacgctc tagaactagt 60
ggatcccccg ggctgcaggt agcctgagct tagctcagcg ccggggcctn accaagacct 120
acactgttgg ctgngaggaa tgcacagtgg ntccctgntt atccatcccc tgcaaactgc 180
agagtggcac tcattgctng tggacggacc agctnctnca aggctntgaa aagggcttnc 240
agncccgtea ccttgcntgc ctgcctcggg agccagggtc gggcacctgg cagtncctgc 300
gggccagat agcctgaata ntgnccggag nggaagctga agcctgcaca gtgtncaccc 360
tgtnccact cccatctttc tttcggacaa tgaaataaag agntaccacc cagcaaaaan 420
aaaaaaaaaa acctg 435
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<210> 752

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (195)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (579)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c

<400> 752
gcggcacgag gcgcccagag agacaccaga gaaccaccca tggccccctt tgagccccctg 60
gcttctggca tctgtgtgtt gctgtggctg atagccccc gcagggcctg cacctgtgtc 120
ccaccccacc cacagacggc cttctgcaat tccgacctg tcatcagggc caagtctgtg 180
gggacaccag aagtnaacca gaccacctta taccagcgtt atgagatcaa gatgaccaan 240
atgtataaag ggttccaagc cttaggggat gccgctgaca tccggttcgt ctacaccccc 300
gccatggaga gtgtctgcng atactttcac aggtcccaca accgnagcga ggagtttctc 360
attgntggaa aactgcagga tggacttttg cacatcacta cctgcanttt tgtggctccc 420
tggaacagcc tgagcttagc tcagcgccgg gncctnacca agacctacac tgttggctgn 480
gaggaaatgc acaagtgtt ccctgtttat ccatccctg caaactgcag agtgggcact 540
cattgtttgt aggacngacc agctcctacn angctcttna aaaggncttt c 591

<210> 753
<211> 547
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c

693

<400> 753

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aagcacttgt ccagatgagc agtgtgtgaa ttctcctgga tcttaccagt gcgttccctg 60
cacagaagga ttccgaggct ggaatggaca gtgccttgat gtggacgagt gcctggaacc 120
aaacgtctgc gcaaatggtg attgttccaa ccttgaaggc tcctacatgt gttcatgcca 180
caaaggctat acccggaactc cggaccacaa gcactgtaga gatattgatg aatgtcagca 240
agggaatcta tgtgtaaacy ggcagtgcaa aaataccgag ggctccttca ggtgcactgt 300
ggacaggggt taccagctgt cggcagctaa agaccagttt gaagacattg atgaatgcca 360
caccgtcatc tctgttgctc atgggcatgc aagaacactg aagctctttt ccatgtgttt 420
tttgaccang gttacagaac atctgggctt gganacactg tgaaaaattt caatgaatgc 480
ttggaagana aaatttttgc canaaaagaa antgctttat actgcagggt cctatgatgt 540
cttgctcc                                     547
```

<210> 754

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<400> 754

```
gctcggctcc agcgccatgg cgccctccag gaagttcttc gttgggggaa actggaagat 60
gaacgggcgg aagcagagtc tgggggagct catcggcact ctgaacgcgg ccaaggtgcc 120
ggccgacacc gaggtgggtt gtgctcccc tactgcctat atcgacttcg cccggcagaa 180
gctagatccc aagattgctg tggctgcgca gaactgctac aaagtgacta atggggcttt 240
tactggggag atcagccctg gcatgatcaa agactgcgga ccacgtgggt ggtcctgggg 300
cactcanaga gaagcatgtc tttggggaat cagatgagct gattgggcag aaagtggccc 360
atgctctggc aganggactc ggat                                     384
```

<210> 755

<211> 253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (217)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<400> 755
tgtagatctt tgaagactct gattctctga gactgaggag agatgtctta ccagcagcan 60
cagtgcagc agccctgcc gccacctcct gtgtgcccc cgccaaagtg cccaagagcc 120
atgtccaccc ccgaagtgcc ctgagcctta cctgcctcct ccttgtccac ctgagcattg 180
cccacctcca ccttgccagt ataaatgccc tcctgtngca accataccac cctggcagcn 240
gaanttcccc cnn 253

<210> 756
<211> 183
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)

695

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (141)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<400> 756

ggcanaaana aggtaggaat aaggctagac cttaacttc cctaagggnat acttttntag 60
ctaccttctg ccctgtgtnt ggnacctaca tccttaatga ttgtcctntt acccattctg 120
gaattttttt ttttttaaaa naantncnga aagcattttg aaaaaaaaaa aacaaaaaaaa 180
aag 183

<210> 757

<211> 99

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<400> 757

agcctttaat anatcatata ggaaantggg agntgcagta cggtnngaat tccgggtgac 60
tcagcggtccg ggattgnanc anctgggatt ggagtttgg 99

<210> 758

<211> 60

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

697

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<400> 758
ggcacgaggt tttttttttt tttttttttt ttttntntn ttttnntttt ttaaaaaaaaa 60

<210> 759
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
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<222> (65)
<223> n equals a,t,g, or c

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centnn 66

698

<210> 760
<211> 487
<212> DNA
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<220>
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<222> (477)
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tttggaagaa gtttttttact ttgggttagt ctttttttcc ttcccttttta ttcagctaga 180
atttctggtg ggttgatggt aggggtataat gtgtctgtgt tgcttcaaatt tgggtctgaaa 240
ggctatcctg ctgaaaagtcc tgcttttcccta tctagcattt atttctctgg caaacttttc 300
tttcttttct tttttaaagt aaacttgtgt attgagctta actgtatttc agtattttcca 360
gcttatgtgt acattattcc aatgataccc aacagttatt tatattttnt aacaaattca 420
cagtctgaat gangacttta tttcatggat tataataagg aatgaggtaa ttngngnctc 480
acattca 487

<210> 761
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<212> DNA
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<220>
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<222> (403)
<223> n equals a,t,g, or c

<220>
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<222> (406)
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gggtggggct gtgagctctt aatttgtttt tgattctgaa aaactctgct tcttggcatc 120
caggagttag agattgagcc ttatcatctt tttctcaaaa ctagtttttg atgctttctt 180
tcatgggaat agtcactttt ttatttagta aatcgcatg ctggaaccac caaggatgtg 240
gaatgtcctt gantgtatta tttatgcaag tcacagtcac gtttgccatc atggcantat 300
ttgaaacact aataatgtgt ttttactttt ttatccccgt taaaatgatn ttnaaaagga 360
aaaagggtggt tatagcccct anaatttctg ggtccaaatt atnccnaaaa tttcctaaaa 420
aa 422

<210> 762
<211> 375
<212> DNA
<213> Homo sapiens

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700

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<222> (315)
<223> n equals a,t,g, or c

<220>
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<222> (373)
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<400> 762
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tcaactgatg aagtaacaat aaagttataa atgataatga tcagatgaaa taattttataa 120
ctttattggt acttcatcag tgtttccttt tgaaagggtg atgaattcat tacattttta 180
ttctaagtga ttatctgtag attagaagat aaaatcaagc atgtatctgc ctatactttg 240
tgagttcacc tgtctttata ctcaaaagtg tcccttaana gtgtccttcc ctgaaataaa 300
tacctaaggg agtgnaacag tctctggagg accactttga gcctttggaa gttaagggtt 360
cctcagccac ctngt 375

<210> 763
<211> 372
<212> DNA
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<223> n equals a,t,g, or c

<220>
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<222> (301)
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<220>
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<222> (320)
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<220>
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<222> (338)
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<220>
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<222> (344)
<223> n equals a,t,g, or c

<220>
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<222> (354)

<223> n equals a,t,g, or c

<400> 763

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atTTTTtcat caagagaaga ataactttac taaattttat ttctttattt gcaaaagaat 120
ctttattaaa acaaacaatc ttaactatgc acatgatgtg accagatcat cttgaaaata 180
ttcctcttta gtaggaactc tttgttttta actcttggtg tggtcagaat ataatacttc 240
cataattact tataattcct ntccgggtac tgggggctat aaatacaact tttttaaatg 300
naattcatgg ttatcaaccn ggctccaagt accattangg ggtncctat gggnaattac 360
cttgggaaag tc 372
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<210> 764

<211> 195

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

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<220>

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<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

702

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<222> (128)
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<220>
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<222> (146)
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<220>
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<220>
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<222> (153)
<223> n equals a,t,g, or c

<220>
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ctttganatt naggaaggta aggatngggtc agangatgta acttgatgtg agcagtaata 120
aacctgtntt aaatatcata ctgtgnatat ntnattgaaa atttatttca gagcggaaaa 180
acnttagcta aaatc 195

<210> 765
<211> 103
<212> DNA
<213> Homo sapiens

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<220>
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<222> (76)
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<220>
<221> misc feature
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<222> (91)
<223> n equals a,t,g, or c

<220>
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<222> (94)
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aattaagggtt agcggntcat gtncaagctg ngnttgaaag tgg 103

<210> 766
<211> 538
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (534)
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ggcttcatcc tcaccgagcg cctgggcagc ggcacgtacg ccacggtgta caaggcctac 120
gccaaagaagg acaactcgtga agtggtagcc ataaagtgtg tagccaagaa aagtctgaac 180
aaggcatcgg tggagaacct cctcacggag attgagatcc tcaaggcatt cgacatcccc 240
acattgtgca gctgaaagac ttctagtggt agctgggggc ggggncgctg ccaaaggag 300
tggaagaagga catctntttc aggccgnctc tctgcctctt aaaacaacag ttgggaacag 360

705

ttgaaccaat taatcttanc ttcaatccat tgggaagttt ttttgccggc caaggggggg 420
gccggaaacc ttggtncctc nggcntttcn aatcccaatt aaaccccggc caanggaatt 480
ttcttgggcc cttgaaagaa aaanggtttg ggcccnccn tnggtncctt tccnaatg 538

<210> 767
<211> 415
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<400> 767
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ctgcagtgat acttctggta gatgtcacc c agtggttttt gttaggtcaa atgttcctgt 120
atagtttttg caaatagagc tgtatactgt ttaaattgtag caggtgaact gaactggggg 180
ttgctcacct gcacagtaaa ggcaaacttc aacagcaaaa ctgcaaaaag gtgggtttttg 240
cagtaggaga aaggaggatg tttatgtgca gggcgccaag caaggagaat tgggcagctc 300
atgcttgaga cccaatctcc atgatgacct acaagctaga gtattttaan gcagtggtaa 360
atttccagga aagccagaag ttaaaggcca aaattgtaaa tcagtcgaga tcggg 415

<210> 768
<211> 425
<212> DNA
<213> Homo sapiens

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<220>
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<222> (381)
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<222> (389)
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<222> (422)
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<220>
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<222> (423)

<223> n equals a,t,g, or c

<400> 768

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gacccctcag gccaggccct gatccagttc tccaggggtct ttctcagggg caggtccatg 120
gggagaccat ggggtgcttg tctgacactg acctcgccct gctgagtccc cccatcagac 180
tgtccttcct ctgcagcgag tgtctgcagg gtctggatcc aggaaaggaa ttctgatctg 240
tggaagtttg tctccccgt gtgtgtcctg cactaaatgt ccaaaccctg atacaggatg 300
taatgcagag agggccacag gcacaaccca ggctgacaa tcccgtatgt nggaagtaga 360
actgaccccc aacaccaga ngtcattgng aaatactcac ggtatacatg gaaaaaaaaa 420
annaa 425
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<210> 769

<211> 256

<212> DNA

<213> Homo sapiens

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<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

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<222> (120)

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707

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<222> (163)
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<220>
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<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

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gcaccagctg gcttcccaaa ggngnggcag ccgtgcttat atttttatgg tnacaatggn 120
cacaaaatta ttatcaacct aactaaaaca ntccttttct ctnttttcct ggaattatca 180
tggagttttc taattctctn ttttggaat ngtagattgt ttttgaaatg ctttnacgat 240
gttaaaatan tttatt 256

<210> 770
<211> 316
<212> DNA
<213> Homo sapiens

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<220>
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<222> (46)
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<220>
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<222> (158)

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<220>

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<222> (173)

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<220>

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<222> (200)

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<222> (228)

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<220>

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<222> (267)

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<222> (281)

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<220>

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<220>

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<222> (291)

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<220>

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<222> (294)

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ctgtctctgg tggagacaat aaggaggagt tacagatgca gccacagatt gatcatctgc 120
ctttaacgtg aatcggagat gctttgtaat ctactgtgcc agctgaagca ctncatgtta 180

709

cgaggaagaa actacaagtn atgttcaa at ctattttggg tcattttnat gtacctttgg 240
gttcaggcat tattttggggg gttttnttc caaaggaact naantaaagt natnttgctt 300
attaaaaaaaa ggaaaaa 316

<210> 771
<211> 68
<212> DNA
<213> Homo sapiens

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<222> (32)
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<220>
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<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<400> 771
caaaagcngg agnccaccg cnggcgaccg cnetanaact agtggatccc ccggnctgca 60
ggaattca 68

<210> 772
<211> 258
<212> DNA
<213> Homo sapiens

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<220>

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711

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<222> (235)
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<222> (250)
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<220>
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<222> (257)
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nttgggtcat ttccacatgc tttattccag caatcaaaat aattaaaaac atctcaaatt 120
attatacaca tacaaaatng gtacagagtc ttttncttcc tcccaccctt aggggggaaaa 180
actgctttnt gctttgggaa gttgtctctg aaaccggggg acagnggacg caggncagac 240
taggagggan ccgggang 258

<210> 773
<211> 587
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (559)
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<220>
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<222> (570)
<223> n equals a,t,g, or c

<220>
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<222> (572)

<223> n equals a,t,g, or c

<400> 773

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cgctagagaa gcaatttctg acccctcttt ctttctctgg tcaactcaatt tcaggacagg 120
agttgctcct tcccaaagag ttttggggta tcttctcttc cattctaggt tattcggagc 180
ccccttttta ccgttaagga gatctgagtt aatggcttgc tcaagttccc aggaatcggc 240
tgtggactga ggaactcggc cccgggctct tagtacgccg tcccttggtc aggtatccag 300
ggacggttct cacctctgtc ttttctcctt gcagggtgact cctgcacctg cgccggctcc 360
tgcaaatgca aagagtgcaa atgcacctcc tgcaagaaaa gtaagtggga tcctctcttt 420
cctctacccc ttctgtcct ccagcctgtc cctctctcac catcctcagg ggaattaaag 480
caagtctggg gatgccccat tgcgcgggga aattggtggc ctctcagtg atccntatca 540
aggagaagca aggaatccnt aattnccggn gnccggttga cttaact 587
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<210> 774

<211> 89

<212> DNA

<213> Homo sapiens

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<222> (74)

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<222> (83)

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<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<400> 774

ggcagagggga aacatcaggn atgctaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaanannana aanaantat 89

<210> 775

<211> 113

<212> DNA

<213> Homo sapiens

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<220>

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<222> (106)

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714

<400> 775

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gggtcctttt ccctntnttc agagtggggg gcccaaattt gggcgntctg ttt 113

<210> 776

<211> 66

<212> DNA

<213> Homo sapiens

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<222> (65)

<223> n equals a,t,g, or c

<400> 776

ggcanaggat ttnaaccctc accttcgtgt ttcccccaat gtttaaaang tttggatggt 60
ttgtng 66

<210> 777

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<400> 777

atttgatga aagaacttaa gcaaccttaa tattggctga gactttttaa agagaaggag 60


```
aatttacttt tttgcctaata taggaggaag cttggtcata aggaaaaaga gctgtgttta 120
ggaaatagtg tgtgcccttt gaattaatgg agtgacaccg tgattcatga caggattcca 180
tttactggct gtatgccagc tgctgacagt ctataagtct taatagagat ggagtagagg 240
agctgaaggt tggcatctgc tcattgatga caactatgtt tacaatatgt tgtggactag 300
ttggggcact gaggcaggag aatcacgtgg agcccacggg ttcaagacca gcctgggaaa 360
catagcaaga ccttgtttct aaaaaaaaaa aaaaaaaaaa ncgagggggg gcccggtacc 420
caattcgccc taaagngagt c 441
```

<210> 778

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<400> 778

```
gcttactttt aaccagtgaatttgacctgc ccgtgaagag gggggcataa cacagcaaga 60
cgagaagacc ctatggagct ttaatttatt aatgcaaaca gtacctaaca aaccacagg 120
```

716

```

tcctaaacta ccaaacctgc attaaaaatt tcggttgggg cgacctcgga gcagaaccca 180
acctccgagc agtacatgct aagacttcac cagtcaaagc gaactactat actcaattga 240
tccaataact tgaccaacgg aacaagttac cctagggata acagcgcaat cctattctag 300
agtccatatc aacaataggg tttagcgacct cgatnttgga tcaggacatc ccgatngtgc 360
agccgctatt aaagggttcgt ttgttcaacg attaaagtcc tacgtgatct gagttcagac 420
cggagtaatc caggtcggtt tctatctact tcaaattcct ccctggaaaa nnagaagngg 480
nng

```

<210> 779

<211> 389

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<400> 779

```

ccctcttccc ggctccagct ccgcccgcag ctccagcctt tgctccccct cccaaagtcc 60
cctccccgga gcgagcgca cctagggctc ctcttcgctc cccccagccc agctaccgct 120
tcagaccagc agcctcgggg ggcaccccc cgccagcctg cctccctccc gctcagccct 180
gccaggttcc cccagccatg aatctcttcc gattcctggg aaaactctcc caactcctcg 240
ccatcatctt gctactgctc naaatctgga attcccgcgc gtgcgccgaa attcaggaaa 300
aaaacagtcc cgtttggtgt ggggnnttca atggccnaat ttgaaatcct ttcacaataa 360
tntttantct aaaaattttt ttaaagggn

```

<210> 780
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<400> 780
ttgtttttaa aactatgnac caggtttcta atgatgaaat aaagcacctg tttgttttat 60
accaaaa 66

<210> 781
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>

718

<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<400> 781
ggcagagcag agcagacgca caggccggaa aaggcgcac taacgngtat ctaggctttg 60
gtaactgcgg acaagttgct ttnacctgaa tttnatgata catttcatta aggttccagt 120
tataaaatat ttngttaa atttattaan gtggactata gantgcaaac tnccatttnc 180
cngntaaact tgtttttaaa ttatggccnt aggtaacca tatngtaggg tattaatttc 240
cttggaacca aacca 255

<210> 782
<211> 348
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<400> 782
ttnagtagag acaggggtttc accatgtnag tnaggctggt ctcgaaactcc tgacctcagg 60
tgaatccacc cgagnttggc ctccaagtg gctgggcatt ataggcgtga gcactcacgt 120
ccnccgctca aaatngcata ttcaaagaag caatttcagt tcctttctaa gctttgtgag 180
tnaaggggct cactgactt cctaggccct gttaaatttaa accagtcttt aaggttttgc 240
caggaaagt cccttctttc caagtgggtt ttccaaatg ggcacaatgg caagcnaac 300
agaggangaa acattaataaa aannaaaaaa aatttggggg ggggnncc 348

<210> 783
<211> 160
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<400> 783
ggcacgagct acaatggcac tgtggactna tgtttccttc gccgagngnc tggagcgggg 60
atctgatgaa aagggtcanac tnaaacgcct tgcacggctt ctcggcttga tcacagctcc 120
ctaggtaggt naccacagag nngncncttc tagtgagcct 160

<210> 784
<211> 81
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<400> 784
ggcacgagcc gggatcgtgc cattncattc cagtctgggt gacagagcta gactccatct 60
caaaaaaaaa aaaaaannng n 81

<210> 785
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (539)

<223> n equals a,t,g, or c

<400> 785

```
gagctgcagg catcagagaa ccagccctgc tcacgccatg cccgcccccg ccttccctct 60
tccctcttcc ctctccctgc ccagccctcc cttccttcct ctgccggcaa ggcagggacc 120
cacagtggct gcctgcctcc gggagggaa gaggaggagg gtgggtgggt ggganggggc 180
cttctccag ggaatgtgac tctcccaggc cccagaatag ctcttgacc caagcccaag 240
gcccagcctg ggacaaagct ccganggtcg gctggccgga gctattttta cctcccgcc 300
ccctgtctgg tgccccacc tggacgtctt gctgcagagt ctgacactgg attnnnaaaa 360
nctnaaaang aaccctggta cccaattctg ggncccggnc ctaanctcgg nccaaccca 420
tcatctgtgg acaatggagt ctggaataaa tgctgtttgt canatcaaca aaaaaaaaaa 480
aaaaggggng gccgctttag aggattcaaa gcttaagtaa nggtgcatgn gaagtccana 540
a 541
```

<210> 786

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 786

```
cccacgcgtc cggctctaaca cgtgcgcgag tcgggggctc gcacgaaagc cgccgtggcg 60
```

725

```

caatgaaggt gaaggccggc gcgctcgccg gccgaggtgg gatcccgagg cctctccagt 120
ccgccgaggg cgcaccaccg gcccggtctcg cccgccgcgc cggggaggtg gagcacgagc 180
gcacgtgtta ggacccgaaa gatggtgaac tatgcctggg cagggcgaan cagaaggaaa 240
ctctggtgga ggtccgtagc ggtcctgacg tgcaaatecg tcgtccgacc tgggtatagg 300
ggcgaaagac taaatcgaac catcttagta agctggtttc cctccgaaan tttccctcaa 360
gataagcttg gcgctctcgc aagaccccg aaggaacccn gncanggaat ttttatccgg 420
tnaaagcgaa ttg 433

```

<210> 787

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<400> 787

```

cccaggatgt gtggcgagag cctggggccag cccacagcgt tcctagtcag gcagccacac 60
cttggtcctc atcttgggtcc cttccaatct gaaacctcgt gcctggctcg tctgccacct 120
acatttctct ttccagctgc tgttttgtaa aaagaaaaag aaaaaagaag cccaaactag 180
tgagagtaat atctaattat ctcatTTTTT gtaggtctgt gataaagaac ttagtcatcc 240
cttccacctc ctactgtgaa gaacagaccc tgggtccac actgaaatcc cctctagtca 300
cccattccca cccccaggg agctgcctcc caggcagggg gtgcagaaaa tgattgatgg 360
gctggggaac cctggagagc ctcgactccg gaagtctcaa ggtgcctcct cctctcctta 420
gctggcccggt tggTTTTctg agcagggggc tgaactgtga acaagtcaga caaataaagc 480
aagggtctgc ancatctgca atgtcaaaaa aaaaaaaaaa aaaaaaa 527

```

<210> 788

<211> 203

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

<220>

<221> misc feature

726

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<400> 788

```
gcttcatgtg gtctgacaat ttatTTTTgc catcattttt ttaattaaag aaaaaatttc 60
cagaagagga aaaaaaaact acaaaaaaca aaacattgaa ggttgatatt ttatgtggaa 120
naacatttga attgaattca gaatttttct gaagggtgtan atactttttt tttttttttna 180
ncaaaaaccc tnatttcaaa agg                                     203
```

<210> 789

<211> 124

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<400> 789

```
ggcacgagca gcctacagcc gcctgcatct gtatccaneg ccaggccccg ccagtcccag 60
ctgcgcgcgn cccccagtcc cgcaccngtt cggncacaggc taagttagcc ctnaccatgc 120
cggt                                             124
```

<210> 790

<211> 293

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<400> 790

```
ggcanagcgg cagtccagga cctgcaggcc ccagaggacc tgtnggaccc antggacctc 60
ctggcaaaga tggaaccant ggacatccag gtgccattgg accaccaggg cctcgaggta 120
acagnngtgga aagnggatct nagggctccc cagggccacn cagggcaacc agggccctnc 180
tggnacctcc tgggtgcccct ggtccttgct gtggtggtgt tngagccgct gccattgctg 240
ggattgggag gttgaaaaag cttggnccgt tttgnccccg ngtttantgg ggg          293
```

<210> 791

<211> 129

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

729

<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<400> 791
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaagg gcggccgttt tanaggatcc aagnttacgt acncgngcnt 120
gcaacgtca 129

<210> 792
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<400> 792
ggcacgagcg gccttgagcg cgacgaagac gtgtaggcct gctttccgag gggcgagcgc 60
ggcgccgcgg ggaggagggc ctgcgcgcag tcccgggcgc gttctagggc gccatgctgc 120

730

```
gggaagtctc gcgcgattag tggggaggtc tcgcggcttc tggctacttg gtggcgaggt 180
gaagagcttc tgcaggtgct gggggcggcg aacgcggcgg gaaagaaaaa aaaaaaaaaa 240
aaaaaanctn ggnaagtatt tttnanan                                     267
```

<210> 793
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

```
<400> 793
ggggaaaagt tttggcagga gcgggagaat tctgcggacc tgcgggacgg cggcgggtggc 60
gccgtagnag ccggggacag gtcagtccga gacgagagaa gcggtcagtg ttgtacagtg 120
ttttgggcat gcacgtgata ctcacacagt ggcttctgct caccaacaga tgaagacaga 180
tgcaccaacg aggctgatgg gaaccatcct gtagaggtcc atctgcgttc agaccagac 240
gatgccagag ctatgactgg gcctgcaggt gtggcgccga ggggagatca gccatggagc 300
agccacagga ggaagccctt gaggtccggg aagaggagga gaaagangaa gtggcagaag 360
cagaaggagc cccagagctc aattggggac cacagcatgc acttccttcc agcagctaca 420
cagactctcc cggagctcct cgncaacctt atg                                     453
```

<210> 794
<211> 141
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature

731

<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
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<220>
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<222> (137)
<223> n equals a,t,g, or c

<400> 794
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ggngggggcg cgccggtctc ccggagcggg accgggtcgg aggatggncg agaatacaga 120
gcgacggtgg tngtggnngtg t 141

<210> 795
<211> 167
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<220>
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732

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<220>

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<220>

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<222> (164)

<223> n equals a,t,g, or c

<400> 795

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ngcggcacag cagcagcgac gcagcggcga cantcagagc agggaggccg cncacctgc 120
gggccggccg gagcgggcag ccccgangcnc cctccccggg cacncgc 167
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<210> 796

<211> 331

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (10)

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<223> n equals a,t,g, or c

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<220>
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<220>
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<222> (132)
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<220>
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<220>
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<222> (192)
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<220>
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<220>
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<222> (241)
<223> n equals a,t,g, or c

<220>
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<222> (242)
<223> n equals a,t,g, or c

<220>
<221> misc feature

736

<222> (244)
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<220>
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<222> (260)
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<220>
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<222> (280)
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<220>
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<222> (328)
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nctccactca gctaattgtna caacatgngn nctacttctc nctnnctttt acannnacag 120
gannnnnggcc nnagttaata tatccngtgt acctcactgt ccaatatgaa aaccgtaaag 180
tgcccttatag gnattttgcgt aactaacaca ccctgggttca ttgancntnta cttgctgaag 240
nngnaaaaga caggataagn tttcaatagt ggcataccan atgggacttt tgatgaaatg 300
aatatcaata ttttctgcaa ttccatgngc t 331

<210> 797
<211> 699
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (589)
<223> n equals a,t,g, or c

<220>
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 <222> (597)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (598)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (635)
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<220>
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<220>
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 <222> (678)
 <223> n equals a,t,g, or c

<220>
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 <222> (695)
 <223> n equals a,t,g, or c

<400> 797
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 tagaaattga aacctggcgc aatagatata gtaccgcaag ggaaagatga aaaattataa 120
 ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat taactagaaa 180
 taactttgca aggagagcca aagctaagac ccccgaaaacc agacgagcta cctaagaaca 240
 gctaaaagag cacacccgtc tatgtagcaa aatagtggga agatttatag gtagaggcga 300
 caaacctacc gagcctggtg atagctggtt gtccaagata gaatcttagt tcaactttta 360
 atttgccac agaaccctct aaatccctt gtaaatttta ctgntagtcc aaagaggaac 420
 agctctttgg aactaggaa aaaaccttgt agagagagta aaaaatttta caccataggt 480
 aggcctaaaa gcagccacca attaagaaag cgttcaagct naacacccac tacctaaaaa 540
 aatcccaaac atataactga actnctacac ccaattgggc caatctatna ccctatnnaa 600
 gaactaatgg tagtataagt acatgaaaac cattnttctt cgnataagcc ttgcgtnaga 660
 attaaaacac tgaactgnac attaaacagc caatntcta 699

<210> 798
 <211> 138

<212> DNA
<213> Homo sapiens

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<220>
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<222> (120)
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<220>
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<222> (127)
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<222> (128)
<223> n equals a,t,g, or c

<220>
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<222> (133)
<223> n equals a,t,g, or c

<400> 798
cccggcacag agtcgatgct caataaatgt gtgttgactg catgaatgac ctggaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaanccccc 120
ggggggnncc ccncccc 138

<210> 799
<211> 496
<212> DNA
<213> Homo sapiens

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<220>
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<220>

<221> misc feature

<222> (443)

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<220>

<221> misc feature

<222> (485)

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<222> (490)

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<400> 799

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agcttgatc tgatatacgc actggattgt agaacttggt gctgattttg accttgatt 120
gaagttaact gttcccccttg gtatttggtt aataccctgt acatatcttt gagttcaacc 180
tttagtacgt gtggccttgg cacttcgtgg ctaaggtaag aacgtgcttg tggaagacaa 240
gtctgtggct tgggtgagtct gtgtggccag cagcctctga tctgtgcagg gtattaacgt 300
gtcaaggctg agtggtcttg ggaattctct agaggctggc aagaaccagt tggttttgtc 360
cttgcggggt ctgtcaaggg ttggaaatcc caagccgtag gacccagttc cctnccttaa 420
ccgaagtctt tggccaaaca cnngggccgt aactggcctt gagttggaac ggttgcataa 480
gccgnaaagn atcaac 496
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<210> 800

<211> 516

<212> DNA

<213> Homo sapiens

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<222> (173)

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<220>
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<220>
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<220>
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<222> (256)
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<220>
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<222> (275)
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<220>
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<222> (294)
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<222> (296)
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<222> (335)
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<220>
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<220>
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<222> (487)
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<220>
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<222> (501)
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<400> 800

743

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cacaccaccc cttgccaaan tcatctgcct gctccccggg gggagangac cgccggcctc 120
tnctactagc ccaccagccc accagggana aaataancca tganangcng cgnccgccac 180
ccngtgtncn cantccccnc cttcccgntt cccttagaan cctgccgcgt cctatctcat 240
gacgctcatg gaaccncttt ctttgatctn ctntntctta tctccccctc tttntngttc 300
taaagaaaat cattttgatg caaggtcctg cctgnnatca natccgaagt gctcctgcag 360
tnaccctttn cctggcattt ctcttccacg cgacaagtct gctagtgaga tcttgcatga 420
ctcactttgt ttccaaaacc cggggctatt ttgcatctca agtttcctgg ggccctgcttc 480
ctgtgtacca cttaagggcn nctgggccaa gactgt 516

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<210> 801

<211> 284

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (6)

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<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

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<222> (28)

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<400> 801

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cgaccttcgc gtttttatat atatagatat atatagatat atatagatat atatagatat 120
atatagatat atatagatat agatatatat agatatatat agatatatat agatatatat 180
atatagatat atatagatat atatagatat atatagatat atatagatat atatagatat 240
atatagatat atatagatat atatatctgg ctcatgcatg aaaa 284

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<210> 802

<211> 153

<212> DNA

<213> Homo sapiens

<220>

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<220>
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<223> n equals a,t,g, or c

<220>
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<220>
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<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<400> 802
cggacggctg tgtagcgcgt ggggtgtaaga cttgcccgaag tcccanagca cctcacctcc 60
cgaagccacc atccccaccc tgtcttccac anccgcctga aagccacaat gagaatgant 120
cacactgagg cctngatgtn ctntaatcac ttg 153

<210> 803
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
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<221> misc feature
<222> (375)
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<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<400> 803
cacgtgagat taaaaccaat tttttcccca ttttttctcc ttttttctct tgctgcccac 60
attgtgcctt tattttatga gccccagttt tctgggctta gtttaaaaaa aaaatcaagt 120
ctaaacattg catttagaaa gcttttggtc ttggataaaa agtcatacac tttaaaaaaa 180
aaaaaaaactt tttccaggaa aatatattga aatcatgctg ctgagcctct attttctttc 240
tttggatggt ttggattcag tattccttta nccataaatt tttagcattt aaaaattcac 300
nggatggtac attaaagccaa taaactggct ttaatggatt acccaaaaaa aaaaaaaaaa 360
aaaggggggn cgcnnacagag ggn 383

<210> 804
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
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<222> (401)
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<220>
<221> misc feature

746

<222> (434)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (478)
 <223> n equals a,t,g, or c

<220>
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 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (504)
 <223> n equals a,t,g, or c

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 ctctggagct cagcacagcc ctggagcacc agnggtacat tacttttctt gaagacctca 120
 agagtgtttgt caagagccag tagagcagac agatgctgaa agccatagtt tcatggcagg 180
 ctttggccag tgaacaaatc ctactctgaa gctagacatg tgctttgaaa tgattatcat 240
 cctaatatca tgggggaaaa aataccagat tttaaattata tgttttgtgc tctcatttat 300
 ttatcatttt tttctgtaca aatctattat ttctagggtt ttgtattaca tgatagacat 360
 aaattgggtt atctcctcca ggcagtttgt cttttcnant nctccccctt caaccgtgtc 420
 acaaagacca gacngtgtcg ggaaagtttt ttttctccgt attgttaaag gttccatnca 480
 attaggttta ataaaggcct nttntccag 509

<210> 805
 <211> 753
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (648)
 <223> n equals a,t,g, or c

<220>
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 <222> (668)
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<220>
 <221> misc feature

747

<222> (718)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<400> 805

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ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccttat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca caccctgtcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctgggtgat agctgggtgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aacctcttaa atccccttgt aaatttaact gttagtccaa 420
agaggaacag ctctttggac actaggaaaa aaccttgtag agagagtaaa aaatttaaca 480
cccatagtag gcctaaaagc agccaccaat taagaaagcg ttcaagctca acaccacta 540
cctaaaaaat cccaacata taactgaact cctcacacc aattggacca atctatcacc 600
ctatagaaga actaatggta gtataagtaa catgaaaaca ttctcctncg cataagcctg 660
cgtcaganta aaacctgact gacaattaac agcccaattc tacaatcaaa caacaagnca 720
ttattaccct tactgncaac ccaaccaggc atg 753
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<210> 806

<211> 404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 806

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aaactaaagc tgaagaggta ctttccataa atacctccca ctgattgaat cagtgtcttt 120
aaagaaattt ctcaatcett cagccggtga tagcacgttc ttaatgtctc tttttattgc 180
ctgtaatggt attgcagatc cacatctctc gctcaactgt taatgtctca acctccagag 240
gcacccacc cagcacactg tcagtaaagg ggcagaatga aacagtgaga gttaagggtg 300
caggaagaaa atttgcatgt ttgcaagtga ctagaatcag atagtaagtg gnggtgggtt 360
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ttcctctcag agccgccc aa actgccttga tgtgtggagg ggangaaga tgggtaaggg 180
ctcaggaagt tgctccanga acagtagctg atganctgcc cagagtgcct ggctccagcc 240
tgtacccttg gtatgcctg aacatntggt ttccccaccc aantgcggct aagtctcttt 300
ttccttggtat cagccaggcg aaattggggc tttgacaagg aattttctaa ggaaaccttg 360
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gtaacgcagg tgtcctaagg cgagctcagg gaggacagaa acctcccgtg gagcagaagg 180
gcaaaagctc gcttgatctt cattttcagt acgaatacag accgtgaaag ccgggcctca 240
cgatcctcct gaccttnncg ntttncagcn ggaggtgtca gaaaantnac cacagggata 300
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 ccccatagtg attgagtctt caaaaccacc gattctgaga gcaaggaaga ttttggaaga 180
 aaatctgact gtggattatg acaaagatta tcttttttct taagtaatct atttagatcg 240
 ggctgactgt acaaatgact cctggaaaaa actcttcacc tagtctagaa taagggaggt 300
 gggagaatga tgacttaccc tgaagtcctt cccttgactg ccgcactgg ggcctgttct 360
 gtgccctggg agcatnntgc ccagctaagt ggggttcagg cagtgggcag ctttcccaat 420
 nantcgattt ccattncagn gganttaaaa ccagttggcc aaatttccaa gnccttgnaa 480
 ntaaggantc catttaccaa cccgcggttt tgtggtcagt gccccaaagg ggtaggttga 540
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tancctgtan cttatatttg acattcttca ctgtctgttg ttnancnacc gtagcttttt 180
accgttcaact tccccttcca actatgtcca gatgtgcagg ctccctccnct ctggactttc 240
tccaaaggca ctgaccctng gnctnnactt tg 272

<210> 811
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<212> DNA
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tgtcttttagg taaaagcttt ggtttgtgtt cgtgttttgt ttgtttcact tgtttccctc 180
ccagccccaac accttttgtt ctctccgtga acttaccttt ccctttttct ttctcttttt 240
tttttttgga anattaatng tttncataa aatttncatn gccattaaaa aaaaaaaaaa 300

<210> 812
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aagcataata tagcaaggac taaccctat accttctgca taatgaatta actagaaata 180
actttgcaag gagagccaaa gctaagacc ccgaaaccag acgagctacc tnagaacagc 240
tgaaagagca caccgcgtcta tgtagcaaaa tagtggaag atttataggt tgangcgaca 300
aacctaccga gcctgggtgat agctngttgt tccaanattg aatccttagt tccactttta 360
atttggcccc aaaaaccccc taattcccct tggttaattt taactgttng tccccaaaaa 420
ggaaccngct ctttgggacc cttanggaaa aaaaccttgn ttaaaaaanaa ttaaaaaa 478
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<213> Homo sapiens

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tga
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63

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cagtacctaa caaacccaca ggtcctaaac taccaaacct gcattaataaa tttcggttgg 180

ggcgacctcg gagcagaacc caacctccga gcagtacatg ctaagacttc accagtcaaa 240
gcgaactact atactcaatt gatccaataa cttgaccaac ggaacaagtt accctaggga 300
taacagcgca atcctattct agagtccata tcaacaatan ggttttacnac ctcgatgnnn 360
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tgatcccccg ggctgcagga attcggcncg agaggaaana gaaaccgtct gaactatgct 180
gnnngccatc atnctnggcc tcatcgcnnt tccatcccta cgcgatgctt acatagcana 240
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<210> 819
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<400> 819
gcttaaattc ttttgaggat gggatgtatt tttcttgctg ttcagtgctt tttccttttc 60
atctgttggt ctgtgggtcac agtgacctta gctacatagc agactttccc aaatgtattg 120
attacaaata aacagttgtt acttagcaag acctgaaaat atgtctgcag gtttctcctt 180
gaagcaaattg tgtgggatca ttgcatttcc agaaatctgc ctcccttcacc ctccgttgac 240
agtatatgtc atgcctcact ttcttctagc tgagctttta atcattagag cttaaattgt 300
cagatcgttc attgcctttc cagggttatt tagtaaagtt tggtgaaaac aaaaacgcct 360
tttcttggnr cttttttcag ttattttgaa ggccagcatc ctgattaaat gctgacacat 420
taatgaatga ccagcaacag ctttcagctc ttaaaaagac acttatattt gaatttacat 480
gctgggtacc tgggtccaat ggtggcaaaa ggccactntt cattaaaagg ggtcctccat 540
ttcntanccc caaggacttc ctcanttttc aaattgggaa gggnacctaa aaggggttac 600
aattaaaacc ctggggtaaa gggggnaaaa aaaaaaaaaa aaaaaaaaaa 648

<210> 820
<211> 469
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<400> 820
gccactccac cttactacca gacaacctta gccaaaccat ttacccaaat aaagtatagg 60
cgatagaaat tgaaacctgg cgcaatagat atagtaccgc aagggaaga tgaaaaatta 120
taaccaagca taatatagca aggactaacc cctatacctt ctgcataatg aattaactag 180
aaataacttt gcaaggagag ccaaagctaa aacccccaat aaaccttgaa cagtgaanaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacctcgag gtcnacggta tcnataacct 300
tgatatcnaa ttcggcacna gcaaccctca ttcccccaacc cacgccggag gctgcgcctg 360
caggacctgn ctgaccgatt ggtggatcct ctgaanatga acacgactca ccactgctca 420
ncgaggcntg cttgagcaaa atccgccaat tataaaaaaa aaacnctcc 469

<210> 821
<211> 432
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 821
ggcacgagag aaactgtgtg tgaggggaag aggcctgttt cgctgtcggg tctctagttc 60
ttgcacgctc tttaagagtc tgcactggag gaactctgcc attaccagct cccttggtgc 120
agaaggaagg ggaaacatac atttattcat gccagtctgt tgcattgcagg ctttttggct 180
tcctaccttg caacaaaata attgcaccaa ctcttagtg ccgattccgc ccacagagag 240
tcctggagcc acagtctttt ttgctttgca ttgtaaggag agggactaaa gtgctagaga 300
ctatgtcgtc ttcctgagct aacgagagcg ctctggaact ggantcaact gctttcaggg 360
aaaaagaaaa aaaaaaaaaa aaaanccggg ggggggcccg gtaaccatt tccccctana 420
gnggnggggt tt 432

<210> 822
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (382)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (385)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (425)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (427)
 <223> n equals a,t,g, or c

<400> 822
 aagtctcttc agtgcactcg ctccctctct ggctaaggca tgcattagcc actacacaag 60
 tcattagtga aagtggcttt ttatgtcctc ccagcagaca gacatcaagg atgagttaac 120
 caggagacta ctctgttgga ctgtggagct ctggaaggct tgggtgggagt gaatttgccc 180
 acaccttaca attgtggcag gatccagaag agcctgtctt tttatatcca ttccttggat 240
 gtcattgggc ctctcccacc gatttcatta cggtgccacg catccatggg atctggggta 300
 gtccggaaaa acaaaaggag ggnagacagc ctggtaatgg ataagatcct taccacagtt 360
 ttcccanggg gaatacctta tnaanccttc aacttttttt tttcccttaa gaattaaaac 420
 ggggnana 428

<210> 823
 <211> 100
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (32)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (54)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (63)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<400> 823

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ctcagctcct gggggctcct gctactctgg gntcccgagg gtgccaaaat gtgncatcca 60
agntgaccca ntctccgncc ctccctgtct gcagctggta 100
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<210> 824

<211> 173

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<400> 824

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cggacgcgtg ggcggacgcg tgggcggacg cgtggggccga gaaccacagg tgtacaccct 60
gcccccatcc cgaggaggana tgaccaagaa acagtcagct gaactgcctg nttctanagg 120
tttctatccc acgaaatccc cttgaatttg gaaacnattg ggcanccgaa aaa 173
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<210> 825

<211> 341

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<400> 825
cccaaacc ca ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag 60
tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agaacgagct 240
accttagaac agcttaaaga gcacaccctt ctatttttgc canaatagtg ggaaagattt 300
ataggttgaa ggnaacnaac ctaccgagcc tggtnaatnc t 341

<210> 826
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<400> 826

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gcaaaccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccttat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca cacccttcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggntgt ccaagataga atcttagttc 360
aactttaaat ttgccacag aaccctctaa atccccttgt aaatttaact gttagnccaa 420
agagggaaca gctctttgga cactangaaa aaaccttgta tagagaggaa naaanatttn 480
acaaccata ct 492
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<210> 827

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<400> 827

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ggtcgtgctc tcccggggccg ggtccgagcc gcgacgggcg agggggcggac gttcgtggng 60
aacgggaccg tccttctcgc tccgccccgc ggggggtccc tcgtctctcc tctccccgcc 120
cgccggcggt gcgtgtggga aggcgtgggg tgcggacccc ggcccgacct cgccgtcccg 180
cccgcgcct tctgcgtcgc ggggtgcgggc cggcggggtc ctctgacgcn gcagacagcc 240
ctcgtgtgtn cctccagtgg angncgactt gcgggcggta ctctacgan 290
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<210> 828

<211> 420

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<400> 828

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gggtcgaccc acgcgtccgg cagcacggaa aaagaaggtc tcctccacga agcgacactg 60
agcgtgcacc aagggtcttg tctgcggggg ccttgagact cctgctcttc tcccgcacct 120
ccatggatgc actgctgccg agcagagcng cctctgccag gccccgccct gggattccta 180
gagactagct tcagttttgc tatttttttt aagtgggaga aggggtgggca gttatcactg 240
gggaagagag gaccggccac ctgtccagca tgggctccag agccttcctc tctcacaggg 300
cagagtcttg tcggcaaggc agcctcctgg ccantttctc tgctcatgtt tctgggtagc 360
agagttcaga gccaatgtt tnacttcttg gttgtncocg tgnangaagc ctttcaaaac 420
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<210> 829

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 829
ttcagaaaaa acaatagtnn tgtgcctctn tcttctcaaa caatggatga cacaanncta 60
tggagagtga caaaatggtg acaggtagct ggggacctag gctatctcnc catgaagggt 120
gttcngctna ttgtatatct gtgtatgtag tgtaactata ttgtacaatg ngaagactgt 180
naactactat ntagggttgt tgcagattga aatttagttg tctcattggc tgtctgagga 240

agtgtggact tctatatata gatctannnt gaaaactgct ncatgantga aaaccaca 298

<210> 830

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

777

<220>
 <221> misc feature
 <222> (513)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (515)
 <223> n equals a,t,g, or c

<400> 830
 ncggnaactn ctcactatag ntgaaagctg gtacncctgc aggtaccggt ccggaattcc 60
 cgggggcacn cccttggtccc caagagaccc gacgcttgct tcatggccta cacgttcgag 120
 agagagtctt cgggagagga ggaggagtag ggccgcctcg gggctgggca tccggcccct 180
 ggggccaccc cttgtcagcc gggtaggttag gaaccgtaga ctgcctcatc tcgcctgggt 240
 ttgtccgcat gttgtaatcg tgcaaataaa cgctcactcc gaattagcgg tgtatttctt 300
 gaagtttaaat attgtgtttg tgatactgaa gtatttgctt taattctaaa taaaaattta 360
 tattttactt ttttattgct ggtttaagat gattcagatt atccttgnac tttgaggaga 420
 agtttcttat ttggagcttt tggaaacagc ttaagctttt aacttggaat gatagnatt 480
 aatccccttc attggtntcc aaaagccaat aangng 516

<210> 831
 <211> 636
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (414)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (453)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (530)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (617)
 <223> n equals a,t,g, or c

<400> 831
 ggaaaaaaat gagttccatt taaaattttg gcatatggca ttttctaact taggaagcca 60
 caatgttctt ggcccatcat gacattgggt agcattaact gtaagttttg tgcttccaaa 120
 tcactttttg gtttttaaga atttcttgat actcttatag cctgccttca attttgatcc 180

778

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tttattcttt ctatttgtca ggtgcacaag attaccttcc tgttttagcc ttctgtcttg 240
tcaccaacca ttcttacttg gtggccatgt acttggaata aggccgcatg atctttcttg 300
ctccactcag tgtctaaggc accctgcttc ctttgcttgc atccacacaga ctatttcctt 360
catcctatatt actgcagcaa atctctcctt agttgatgag actgtgttta tctnccctta 420
aaaccctacc tatcctgaat ggtctgtcat tgnctgcctt taaaatcctt cctctttctt 480
cctcctctat tctctaaata atgatggggc ttaagttata cccaaagctn actttacaaa 540
atatttcctc aagactttgc agaaacacca acaaaatgcc atttaaaaaa ggggattttc 600
tttaaaggaa ctctaanaca ggcaagggtc tgatgt 636

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<210> 832

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<400> 832

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gatcagatta tgagttactg tttaaaagaa aaatgctggt tattcatgct gaggtgattc 60
agttccctcc ttcttacaga agtattttta ttcacccac actagaaatg cagcatcttt 120
gtggacgtct ttttcacaag cctccaaggc tccttagatt gggtcgttac taaaagtaca 180
ttaaaacact cttgtttatc gaagtatat gatgtattct aaagctagta aacttcctta 240
acgtttaatt gccctacaga tgcttctctt gctgtgggtt ttcttttggt agtggtctga 300
aataattatt ttctgtttct attaatacat aagtgtattt tgcacaaaaa aattaacctg 360
gtcaaatagt gattacaaa atatatatta ataatcttgg gcaaattttt gccatttata 420
ngaaaacatt ttaacccac ggntangttc tanatttatt ctttcn 466

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<210> 833

<211> 405

779

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (237)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (278)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (335)
 <223> n equals a,t,g, or c

<400> 833
 ttttaattca acccagccat gcaatgccaa ataatagaat tgctccctac cagctgaaca 60
 gggaggagtc tgtgcagttt ctgacacttg ttgttgaaca tggctaaata caatgggtat 120
 cgctgagact aagttgtaaa aaattaacaa atgtgctgct tggttaaaat ggctacactc 180
 atctgactca ttctttattc tatttttagtt ggtttgatc ttgcctaagg tgcgtantcc 240
 aactcttggt attaccctcc taatagtcac actagtantc atactccctg gtgttatgta 300
 ttctctaaaa gctttaaatg tctgcattgc aaccngccat caaatattga atgggctctc 360
 ttttggtctg aattacaaac tcaaaaaatg tttctcagga aaaaa 405

<210> 834
 <211> 402
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (277)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (332)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (354)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (359)
 <223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<400> 834
gcaaaccac aggtcctaaa ctaccaaacc tgcattaaaa atttcggttg gggcgacctc 60
ggagcagaac ccaacctccg agcagtacat gctaagactt caccagtcaa agcgaactac 120
tatactcaat tgatccaata acttgaccaa cggaacaagt taccctaggg ataacagcgc 180
aatcctattc tagagtccat atcaacaata ggggtttacga cctcgatgtt ggatcaggac 240
atcccgatgg tgcagccgct attaaagggtt cgtttgntca acgattaaag tcctacgtga 300
tctgagttca gaccggagta atccaggtcg gnttctatct acttcaaatt cctncctgna 360
cgaaaaggaca agagaaataa gggctacttn acaaagcgcn tt 402

<210> 835
<211> 121
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<400> 835
nttnaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaan aaaaaaaaaa aaaaaaaaaa 60
aaaaagggcg gccgttntaa aggatccaag cttacgtacn cgtgcatgcn acgtcanagc 120
t 121

<210> 836
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
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<222> (408)
<223> n equals a,t,g, or c

<400> 836
agtaagcctg ccagacacgc tgtggcggct gcctgaagct agtgagtcgc ggcgccgcgc 60
acttgtggtt gggtcagtgc cgcgcgccgc tcggtcggtta ccgcgaggcg ctggtggcct 120
tcaggctgga cggcgcgggt cagccctggt ttgccggctt ctgggtcttt gaacagccgc 180
gatgtcgatc ttcaccccca ccaaccagat ccgcctaacc aatgtggccg tggtaggat 240
gaagcgcgcc aggaagcgct tcgaaatcgc ttgctacaga aacaagtcgt cggctggcgg 300
agggcttttg aaaaagactt gatgaatttt gcagacccan caangtttgt aaagttacca 360

aagtcagttt ccaaaaggaa attcancagg ggtttgaaa atgccaanga a 411

<210> 837

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<400> 837

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gcggcagctc agcaagtggg ggaccaggcc acagaggcgg ggcagaaagc catggaccag 60
ctggccaaga ccaccaggga aaccatcgac aagactgcta accaggcctc tgacaccttc 120
tctgggatcg ggaaaaaatt cggcctcctg aaatgacagc agggagactt gggtcggcct 180
cctgaaatga tagcaggag acttggtga ccccccttc aggcgccatc tagcacagcc 240
tgggcctgat ctccgggcag ccaccacctc ctcggtctgc cccctcatta aaattcacgt 300
tcccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaa aaaaaaaaaa ngnnnn 386
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<210> 838

<211> 124

<212> DNA

<213> Homo sapiens

<400> 838

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gctttcaata gatcgagcg agggagctgc tctgctacgt acgaaacccc gaccagaag 60
caggtcgtct acgaatggtt tagcgccagg ttccccacga acgtgcggtg cgtgacgggc 120
gagg 124
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<210> 839
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<400> 839

atctgggtgt ggttacaatg aaaatnagaa gcattattga tggattcgca taagcncaat 60
gtgatgtcct gcgccgttct gccccctctc ccttccaggg tgaggggncgtg gggtgagggt 120
taatgttcgn accagtgctg gctgttcccc tcaccctaac cctctcccca aaggncgnag 180
gggcccggtt acccaattcg ccctatagtg agtcgtatta caattcactg gccgtcgttt 240
tacaagacgn agggaggagn ntgatgaaaa 270

<210> 840

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

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<400> 840
ctctacatca cgcgccccgac cttagctctc accatcgctc ttctactatg aacccccctc 60
cccataccca accccctggg caacctcaac ctaggcctcc tatttattct agccacctct 120
agcctagccg tttactcaat cctctgatca gggtgagcat caaactcaaa ctacgccctg 180
atcggcgcac tgcgagcagt agcccaaach atctcatatg aagtcacct agccatcatt 240
cctactatca acattactaa tnngttggt cctttaacct ctccaccctt atcacaacac 300
aagaacactc ctgaatatcc tgccatcata accctttggc catatatnat tatcttccac 360
actagggana acaacgaacc cccttcgaan cttgngaaag ggaatttcna ataattctca 420
ggttcaaatt                                     430

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<210> 841

<211> 650

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<400> 841

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gccgtcatct actctaccat ctttgcaggc acactcatca cagcgctaag ctgcgactga 60
ttttttacct gagtaggcct agaaataaac atgctagctt ttattccagt tctaaccaaa 120
aaaataaacc ctcggtccac agaagctgcc atcaagtatt tcctcacgca agcaaccgca 180
tccataatcc ttctaatagc tatcctcttc aacaatatac tctccggaca atgaaccata 240
accaataata ccaatcaata ctcatcatta ataatcataa tggctatagc aataaaaacta 300

```

```

ggaatagccc cctttcactt ctgagtccca gaggttacct aaggcacccc tctgacatcc 360
ggcctgcttc ttctcacatg acaaaaaacta gcccccatct caatcatata ccaaattctct 420
ccctcactag acgtaagcct tctcctcact ctctcaatct tatccatcat agtaggcagt 480
tgaggggtgga ttaaaccaaa acccagctac gcaaaatcnt agcatacttc ctcaattacc 540
cacataggat gaatnaatag cagnttctac cgnacaaccc ttacataanc atttcttaaa 600
ttaactaatt atattaatcc taactactac ggantctact actaacttaa 650

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<210> 842

<211> 509

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<400> 842

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gcctgtgtct gctaaaaaag aaaagaaagt ttcttgcctg ttcattcctg atgggcgggt 60
gtctgtctct gctcgaattg acagaaaagg attctgtgaa ggtgatgaga tttccatcca 120
tgctgacttt gagaatacat gttcccgaat tgtggtcccc aaagctgcca ttgtggcccg 180
ccacacttac ctgccaatg gccagaccaa ggtgctgact cagaagtgtg catcagtcag 240
aggcaatcat attatctcag ggacatgcgc atcatggcgt ggcaagagcc ttcgggttca 300
gaagatcagg ccttctatcc tgggctgcaa catccttcga gttgaatatt ccttactgat 360
ctatgttagc gttcctggat ccaagaaggc catccttgac ctgcccctgg taattggcag 420
cagatcaggt ctaagcanca gaacatccag ctggncagcc cnaaccanct ctgaagatga 480
gntgggtaga tctgaacatc ctgataccc 509

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<210> 843

<211> 158

<212> PRT

787

<213> Homo sapiens

<400> 843

Lys Arg Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys
 1 5 10 15

Gly Pro Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Lys Asp Lys
 20 25 30

Glu Gly Lys Val Phe Tyr Ser Ile Thr Gly Gln Gly Ala Asp Thr Pro
 35 40 45

Pro Val Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val
 50 55 60

Thr Glu Pro Leu Asp Arg Glu Arg Ile Ala Thr Tyr Thr Leu Phe Ser
 65 70 75 80

His Ala Val Ser Ser Asn Gly Asn Ala Val Glu Asp Pro Met Glu Ile
 85 90 95

Leu Ile Thr Val Thr Asp Gln Asn Asp Asn Lys Pro Glu Phe Thr Gln
 100 105 110

Glu Val Phe Lys Gly Ser Val Met Glu Gly Ala Leu Pro Gly Thr Ser
 115 120 125

Val Met Glu Val Thr Ala Thr Asp Ala Asp Asp Gly Cys Gly Thr Pro
 130 135 140

Thr Met Pro Pro Ser Leu Thr Pro Ser Ser Ala Gln Asp Pro
 145 150 155

<210> 844

<211> 601

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

788

<221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (152)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (358)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (383)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 844
 Thr Glu Leu Leu Lys Ser Ala Ala Arg His Gly Thr Ala Glu Ser Ala
 1 5 10 15

 Pro Trp Pro Arg Gly Gln Gly Trp Gln Gln Trp Gln Gln Gln Trp Arg
 20 25 30

 Arg Arg Trp Xaa Ser Trp Arg Lys Asp Arg Ala Arg Thr Arg Arg Gln
 35 40 45

 Glu Glu Leu Ala Leu Ser Gln Glu Pro Lys Ser Ser Ser Arg Gly Xaa
 50 55 60

 Ser Pro Gly Ala Ser Pro Ala Ser Pro Thr Ser Gln Gln Phe Cys Cys
 65 70 75 80

 Phe Arg Leu Asp Gln Val Ile His Ser Asn Pro Ala Gly Ile Gln Gln
 85 90 95

 Ala Leu Ala Gln Leu Ser Xaa Arg Gln Xaa Ser Val Thr Ala Pro Gly
 100 105 110

 Gly His Pro Arg His Lys Pro Gly Pro Pro Gln Ala Pro Gln Gly Pro
 115 120 125

 Ser Pro Arg Pro Pro Thr Arg Tyr Glu Pro Gln Arg Val Asn Ser Gly
 130 135 140

789

Leu Ser Ser Asp Pro His Phe Xaa Glu Pro Gly Pro Met Val Arg Gly
 145 150 155 160
 Val Gly Gly Thr Pro Arg Asp Ser Ala Gly Val Ser Pro Phe Pro Pro
 165 170 175
 Lys Arg Arg Glu Arg Pro Pro Arg Lys Pro Glu Leu Leu Gln Glu Glu
 180 185 190
 Ser Leu Pro Pro Pro His Ser Ser Gly Phe Leu Gly Ser Lys Pro Glu
 195 200 205
 Gly Pro Gly Pro Gln Ala Glu Ser Arg Asp Thr Gly Thr Glu Ala Leu
 210 215 220
 Thr Pro His Ile Trp Asn Arg Leu His Thr Ala Thr Ser Arg Lys Ser
 225 230 235 240
 Tyr Arg Pro Ser Ser Met Glu Pro Trp Met Glu Pro Leu Ser Pro Phe
 245 250 255
 Glu Asp Val Ala Gly Thr Glu Met Ser Gln Ser Asp Ser Gly Val Asp
 260 265 270
 Leu Ser Gly Asp Ser Gln Val Ser Ser Gly Pro Cys Ser Gln Arg Ser
 275 280 285
 Ser Pro Asp Gly Gly Leu Lys Gly Ala Ala Glu Gly Pro Pro Lys Arg
 290 295 300
 Pro Gly Gly Ser Ser Pro Leu Asn Ala Val Pro Cys Glu Gly Pro Pro
 305 310 315 320
 Gly Ser Glu Pro Pro Arg Arg Pro Pro Pro Ala Pro His Asp Gly Asp
 325 330 335
 Arg Lys Glu Leu Pro Arg Glu Gln Pro Leu Pro Pro Gly Pro Ile Gly
 340 345 350
 Thr Glu Arg Ser Gln Xaa Thr Asp Arg Gly Thr Glu Pro Gly Pro Ile
 355 360 365
 Arg Pro Ser His Arg Pro Gly Pro Pro Val Gln Phe Gly Thr Xaa Asp
 370 375 380
 Lys Asp Ser Asp Leu Arg Leu Val Val Gly Asp Ser Leu Lys Ala Glu
 385 390 395 400
 Lys Glu Leu Thr Ala Ser Val Thr Glu Ala Ile Pro Val Ser Arg Asp
 405 410 415

790

Trp Glu Leu Leu Pro Ser Ala Ala Ala Ser Ala Glu Pro Gln Ser Lys
 420 425 430
 Asn Leu Asp Ser Gly His Cys Val Pro Glu Pro Ser Ser Ser Gly Gln
 435 440 445
 Arg Leu Tyr Pro Glu Val Phe Tyr Gly Ser Ala Gly Pro Ser Ser Ser
 450 455 460
 Gln Ile Ser Gly Gly Ala Met Asp Ser Gln Leu His Pro Asn Ser Gly
 465 470 475 480
 Gly Phe Arg Pro Gly Thr Pro Ser Leu His Pro Tyr Arg Ser Gln Pro
 485 490 495
 Leu Tyr Leu Pro Pro Gly Pro Ala Pro Pro Ser Ala Leu Leu Ser Gly
 500 505 510
 Val Ala Leu Lys Gly Gln Phe Leu Asp Phe Ser Thr Met Gln Ala Thr
 515 520 525
 Glu Leu Gly Lys Leu Pro Ala Gly Gly Val Leu Tyr Pro Pro Pro Ser
 530 535 540
 Phe Leu Tyr Ser Pro Ala Phe Cys Pro Ser Pro Leu Pro Asp Thr Ser
 545 550 555 560
 Leu Leu Gln Val Arg Gln Asp Leu Pro Ser Pro Ser Asp Phe Tyr Ser
 565 570 575
 Thr Pro Leu Gln Pro Gly Gly Gln Ser Gly Phe Leu Pro Ser Gly Ala
 580 585 590
 Pro Ala Ser Arg Cys Phe Tyr Pro Trp
 595 600

<210> 845

<211> 67

<212> PRT

<213> Homo sapiens

<400> 845

Thr Gln Lys Thr Ser Ser Leu Leu Pro Ala Leu Ser Leu Gln Leu Pro
 1 5 10 15

Leu Leu Thr Arg Phe Ser Ile Met Cys Ser Val Lys Glu Glu Phe Trp
 20 25 30

791

Arg Val Gln Ser Ile Ile Thr Glu Leu Val Leu Lys Gly Glu Phe Gly
 35 40 45

Val Glu Glu Ala Met Lys Leu Ile Thr Gly Thr Glu Ala Lys Tyr Lys
 50 55 60

Ser Ile Asp
 65

<210> 846

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846

Ser Gln Gly Pro Asp His Pro Ser Ser Gln Leu Gln Pro Leu Asn Xaa
 1 5 10 15

Ser Leu Ser His Leu Leu Val Pro Cys Leu Ser Ile Met Ser Leu Leu
 20 25 30

Asn Lys Pro Lys Ser Glu Met Thr Pro Glu Glu Leu Gln Lys Arg Glu
 35 40 45

Glu Glu Glu Phe Asn Thr Gly Pro Leu Ser Val Leu Thr Gln Ser Val
 50 55 60

Lys Asn Asn Thr Gln Val Leu Ile Asn Cys Arg Asn Asn Lys Lys Leu
 65 70 75 80

Leu Gly Arg Val Lys Ala Phe Asp Arg His Cys Asn Met Val Leu Glu
 85 90 95

Asn Val Lys Glu Met Trp Thr Glu Val Pro Lys Ser Gly Lys Gly Lys
 100 105 110

Lys Lys Ser Lys Pro Val Asn Lys Asp Arg Tyr Ile Ser Lys Met Phe
 115 120 125

Leu Arg Gly Asp Ser Val Ile Val Val Leu Arg Asn Pro Leu Ile Ala
 130 135 140

Gly Lys
 145

792

<210> 847
 <211> 184
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (179)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 847
 Ala Arg Met Ala Ala Asp Lys Xaa Pro Ala Ala Gly Pro Arg Ser Arg
 1 5 10 15
 Ala Ala Met Ala Gln Trp Arg Lys Lys Lys Gly Leu Arg Lys Arg Arg
 20 25 30
 Gly Ala Ala Ser Gln Ala Arg Gly Ser Asn Ser Glu Asp Gly Glu Phe
 35 40 45
 Glu Ile Gln Ala Glu Asp Asp Ala Arg Ala Arg Lys Leu Gly Pro Gly
 50 55 60
 Arg Pro Leu Pro Thr Phe Pro Thr Ser Glu Cys Thr Ser Asp Val Glu
 65 70 75 80
 Pro Asp Thr Arg Glu Met Val Arg Ala Gln Asn Lys Lys Lys Lys Lys
 85 90 95
 Ser Gly Gly Phe Gln Ser Met Gly Leu Ser Tyr Pro Val Phe Lys Gly
 100 105 110
 Ile Met Lys Lys Gly Tyr Lys Val Pro Thr Pro Ile Gln Arg Lys Thr
 115 120 125
 Ile Pro Val Ile Leu Asp Gly Lys Asp Val Val Ala Met Ala Arg Thr
 130 135 140
 Gly Ser Gly Lys Thr Ala Cys Phe Leu Leu Pro Met Phe Glu Arg Leu
 145 150 155 160
 Lys Thr His Ser Ala Gln Thr Gly Ala Arg Ala Ser Ser Ser Arg Arg
 165 170 175

Pro Glu Xaa Trp Pro Cys Arg Pro
180

<210> 848

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 848

Ala Arg Ala Ser Ser Glu Cys Ala Arg Cys Ala Ala Ala Val Arg Thr
1 5 10 15

Cys Arg Arg Arg His Arg His His Ala Gln Leu Arg Arg His Leu Glu
20 25 30

Asp Ala Xaa Ser Glu Asn Phe Asp Glu Leu Leu Lys Ala Leu Gly Val
35 40 45

Asn Ala Met Leu Arg Lys Val Ala Val Ala Ala Ala Ser Lys Pro His
50 55 60

Val Glu Ile Arg Gln Asp Gly Asp Gln Phe Tyr Ile Lys Thr Ser Thr
65 70 75 80

Thr Val Arg Thr Thr Glu Ile Asn Phe Lys Val Gly Glu Gly Phe Glu
85 90 95

Glu Glu Thr Val Asp Gly Arg Lys Cys Arg Ser Leu Ala Thr Trp Glu
100 105 110

Asn Glu Asn Lys Ile His Cys Thr Gln Thr Leu Leu Glu Gly Asp Gly
115 120 125

Pro Lys Thr Tyr Trp Thr Arg Glu Leu Ala Asn Asp Glu Leu Ile Leu
130 135 140

Thr Phe Gly Ala Asp Asp Val Val Cys Thr Arg Ile Tyr Val Arg Glu
145 150 155 160

794

<210> 849
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 849
Val Gln Asn Val Gly Tyr Gln Ser Lys His Cys Gly Ala Val Xaa Tyr
1 5 10 15
Ala Arg Leu Pro Cys Glu Met Ile Gln Asp Gln Asn Lys Ala Leu Asp
20 25 30
Cys Ser Lys Thr Gln Asn Ser Ser Arg Ala Glu Gly Gly Arg Leu Ile
35 40 45
Trp Xaa Glu Gly Pro Lys Tyr Lys Thr Asp Gly Leu Arg Leu Glu Thr
50 55 60
Arg Gly Leu Arg Trp Lys Ala His Val Pro Arg
65 70 75

<210> 850
<211> 383
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (299)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 850
Ser Thr His Ala Ser Ala His Ala Ser Val Ala Asn Glu Val Ile Lys
1 5 10 15
Cys Lys Ala Ala Val Ala Trp Glu Ala Gly Lys Pro Leu Ser Ile Glu
20 25 30

795

Glu Ile Glu Val Ala Pro Pro Lys Ala His Glu Val Arg Ile Lys Ile
 35 40 45
 Ile Ala Thr Ala Val Cys His Thr Asp Ala Tyr Thr Leu Ser Gly Ala
 50 55 60
 Asp Pro Glu Gly Cys Phe Pro Val Ile Leu Gly His Glu Gly Ala Gly
 65 70 75 80
 Ile Val Glu Ser Val Gly Glu Gly Val Thr Lys Leu Lys Ala Gly Asp
 85 90 95
 Thr Val Ile Pro Leu Tyr Ile Pro Gln Cys Gly Glu Cys Lys Phe Cys
 100 105 110
 Leu Asn Pro Lys Thr Asn Leu Cys Gln Lys Ile Arg Val Thr Gln Gly
 115 120 125
 Lys Gly Leu Met Pro Asp Gly Thr Ser Arg Phe Thr Cys Lys Gly Lys
 130 135 140
 Thr Ile Leu His Tyr Met Gly Thr Ser Thr Phe Ser Glu Tyr Thr Val
 145 150 155 160
 Val Ala Asp Ile Ser Val Ala Lys Ile Asp Pro Leu Ala Pro Leu Asp
 165 170 175
 Lys Val Cys Leu Leu Gly Cys Gly Ile Ser Thr Gly Tyr Gly Ala Ala
 180 185 190
 Val Asn Thr Ala Lys Leu Glu Pro Gly Ser Val Cys Ala Val Phe Gly
 195 200 205
 Leu Gly Gly Val Gly Leu Ala Val Ile Met Gly Cys Lys Val Ala Gly
 210 215 220
 Ala Ser Arg Ile Ile Gly Val Asp Ile Asn Lys Asp Lys Phe Ala Arg
 225 230 235 240
 Ala Lys Glu Phe Gly Ala Thr Glu Cys Ile Asn Pro Gln Asp Phe Ser
 245 250 255
 Lys Pro Ile Gln Glu Val Leu Ile Glu Met Thr Asp Gly Gly Val Asp
 260 265 270
 Tyr Ser Phe Glu Cys Ile Gly Asn Val Lys Val Met Arg Ala Ala Leu
 275 280 285
 Glu Ala Cys His Lys Gly Trp Gly Val Thr Xaa Val Val Gly Val Ala
 290 295 300

796

Ala Ser Gly Glu Glu Ile Ala Thr Arg Pro Phe Gln Leu Val Thr Gly
 305 310 315 320

Arg Thr Trp Lys Gly Thr Ala Phe Gly Gly Trp Lys Ser Val Glu Ser
 325 330 335

Val Pro Lys Leu Val Ser Glu Tyr Met Ser Lys Lys Ile Lys Val Asp
 340 345 350

Glu Phe Val Thr His Asn Leu Ser Phe Asp Glu Ile Asn Lys Ala Phe
 355 360 365

Glu Leu Met His Ser Gly Lys Ser Ile Arg Thr Val Val Lys Ile
 370 375 380

<210> 851

<211> 154

<212> PRT

<213> Homo sapiens

<400> 851

Ala Arg Ala Pro Arg Ala Thr Leu Asn Gly Pro Gly Ala Arg Gly Arg
 1 5 10 15

Val Gly Val Val Val Leu Arg Pro Arg Pro Arg Gly Leu Arg Phe Pro
 20 25 30

Trp Cys Pro Gly Arg Pro Ala Ser Gly Ala Val Ser Tyr Glu Ser Ala
 35 40 45

His Ala Ala Ser Val Arg Leu Thr Leu Arg Thr Met Glu Gly Gly Phe
 50 55 60

Gly Ser Asp Phe Gly Gly Ser Gly Ser Gly Lys Leu Asp Pro Gly Leu
 65 70 75 80

Ile Met Glu Gln Val Lys Val Gln Ile Ala Val Ala Asn Ala Gln Glu
 85 90 95

Leu Leu Gln Arg Met Thr Asp Lys Cys Phe Arg Lys Cys Ile Gly Lys
 100 105 110

Pro Gly Gly Ser Leu Asp Asn Ser Glu Gln Lys Cys Ile Ala Met Cys
 115 120 125

Met Asp Arg Tyr Met Asp Ala Trp Asn Thr Val Ser Arg Ala Tyr Asn
 130 135 140

Ser Arg Leu Gln Arg Glu Arg Ala Asn Met

797

145

150

<210> 852

<211> 396

<212> PRT

<213> Homo sapiens

<400> 852

Asp Ser Arg Val Asp Pro Arg Val Arg Ala Ile Ile Ala Lys Thr Phe
 1 5 10 15

Lys Gly Arg Gly Ile Thr Gly Val Glu Asp Lys Glu Ser Trp His Gly
 20 25 30

Lys Pro Leu Pro Lys Asn Met Ala Glu Gln Ile Ile Gln Glu Ile Tyr
 35 40 45

Ser Gln Ile Gln Ser Lys Lys Lys Ile Leu Ala Thr Pro Pro Gln Glu
 50 55 60

Asp Ala Pro Ser Val Asp Ile Ala Asn Ile Arg Met Pro Ser Leu Pro
 65 70 75 80

Ser Tyr Lys Val Gly Asp Lys Ile Ala Thr Arg Lys Ala Tyr Gly Gln
 85 90 95

Ala Leu Ala Lys Leu Gly His Ala Ser Asp Arg Ile Ile Ala Leu Asp
 100 105 110

Gly Asp Thr Lys Asn Ser Thr Phe Ser Glu Ile Phe Lys Lys Glu His
 115 120 125

Pro Asp Arg Phe Ile Glu Cys Tyr Ile Ala Glu Gln Asn Met Val Ser
 130 135 140

Ile Ala Val Gly Cys Ala Thr Arg Asn Arg Thr Val Pro Phe Cys Ser
 145 150 155 160

Thr Phe Ala Ala Phe Phe Thr Arg Ala Phe Asp Gln Ile Arg Met Ala
 165 170 175

Ala Ile Ser Glu Ser Asn Ile Asn Leu Cys Gly Ser His Cys Gly Val
 180 185 190

Ser Ile Gly Glu Asp Gly Pro Ser Gln Met Ala Leu Glu Asp Leu Ala
 195 200 205

Met Phe Arg Ser Val Pro Thr Ser Thr Val Phe Tyr Pro Ser Asp Gly
 210 215 220

798

Val Ala Thr Glu Lys Ala Val Glu Leu Ala Ala Asn Thr Lys Gly Ile
 225 230 235 240
 Cys Phe Ile Arg Thr Ser Arg Pro Glu Asn Ala Ile Ile Tyr Asn Asn
 245 250 255
 Asn Glu Asp Phe Gln Val Gly Gln Ala Lys Val Val Leu Lys Ser Lys
 260 265 270
 Asp Asp Gln Val Thr Val Ile Gly Ala Gly Val Thr Leu His Glu Ala
 275 280 285
 Leu Ala Ala Ala Glu Leu Leu Lys Lys Glu Lys Ile Asn Ile Arg Val
 290 295 300
 Leu Asp Pro Phe Thr Ile Lys Pro Leu Asp Arg Lys Leu Ile Leu Asp
 305 310 315 320
 Ser Ala Arg Ala Thr Lys Gly Arg Ile Leu Thr Val Glu Asp His Tyr
 325 330 335
 Tyr Glu Gly Gly Ile Gly Glu Ala Val Ser Ser Ala Val Val Gly Glu
 340 345 350
 Pro Gly Ile Thr Val Thr His Leu Ala Val Asn Arg Val Pro Arg Ser
 355 360 365
 Gly Lys Pro Ala Glu Leu Leu Lys Met Phe Gly Ile Asp Arg Asp Ala
 370 375 380
 Ile Ala Gln Ala Val Arg Gly Leu Ile Thr Lys Ala
 385 390 395

<210> 853

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 853

Ser Arg Leu Gly Leu Gln Ser Cys Gly Leu Ser Thr Gln Ala Ile Thr
 1 5 10 15

Leu Ser Glu Thr Ala Ala Ala Leu Asp Cys Ser Leu Pro Arg Leu His

799

20					25					30					
Ala	Arg	Gln	Ser	Met	Arg	Val	Thr	Leu	Ala	Thr	Ile	Ala	Trp	Met	Val
		35					40					45			
Ser	Phe	Val	Ser	Asn	Tyr	Ser	His	Thr	Ala	Asn	Ile	Leu	Pro	Asp	Ile
	50					55					60				
Glu	Asn	Glu	Asp	Phe	Ile	Lys	Asp	Cys	Val	Arg	Ile	His	Asn	Lys	Phe
	65					70					75				80
Arg	Ser	Glu	Val	Lys	Pro	Thr	Ala	Ser	Asp	Met	Leu	Tyr	Met	Thr	Trp
				85					90					95	
Asp	Pro	Ala	Leu	Ala	Gln	Ile	Ala	Lys	Ala	Trp	Ala	Ser	Asn	Cys	Gln
			100					105					110		
Phe	Ser	His	Asn	Thr	Arg	Leu	Lys	Pro	Pro	His	Lys	Leu	His	Pro	Asn
		115					120					125			
Phe	Thr	Ser	Leu	Gly	Glu	Asn	Ile	Trp	Thr	Gly	Ser	Val	Pro	Ile	Phe
	130						135					140			
Ser	Val	Ser	Ser	Ala	Ile	Thr	Asn	Trp	Tyr	Asp	Glu	Ile	Gln	Asp	Tyr
	145					150					155				160
Asp	Phe	Lys	Thr	Arg	Ile	Cys	Lys	Lys	Val	Cys	Gly	His	Tyr	Thr	Gln
				165					170					175	
Val	Val	Trp	Ala	Asp	Ser	Tyr	Lys	Val	Gly	Cys	Ala	Val	Gln	Phe	Cys
			180					185					190		
Pro	Lys	Val	Ser	Gly	Phe	Asp	Ala	Leu	Ser	Asn	Gly	Ala	His	Phe	Ile
		195					200					205			
Cys	Asn	Tyr	Gly	Pro	Gly	Gly	Asn	Tyr	Pro	Thr	Trp	Pro	Tyr	Lys	Arg
	210						215				220				
Gly	Ala	Thr	Xaa	Ser	Ala	Cys	Pro	Asn	Asn	Asp	Lys	Cys	Leu	Asp	Asn
	225					230					235				240
Leu	Cys	Val	Asn	Arg	Gln	Arg	Asp	Gln	Val	Lys	Arg	Tyr	Tyr	Ser	Val
				245					250					255	
Val	Tyr	Pro	Gly	Trp	Pro	Ile	Tyr	Pro	Arg	Asn	Arg	Tyr	Thr	Ser	Leu
			260					265					270		
Phe	Leu	Ile	Val	Asn	Ser	Val	Ile	Leu	Ile	Leu	Ser	Val	Ile	Ile	Thr
		275					280					285			
Ile	Leu	Val	Gln	His	Lys	Tyr	Pro	Asn	Leu	Val	Leu	Leu	Asp		

800

290

295

300

<210> 854

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (235)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 854

Val Pro Ala Ser Phe Ala Ala Ala Ser Ala Val Leu Ser Ala Val Phe
 1 5 10 15

Pro Gln Glu Pro Ala Tyr Phe Leu Asn Met Glu Ser Val Val Arg Arg
 20 25 30

Cys Pro Phe Leu Ser Arg Val Pro Gln Ala Phe Leu Gln Lys Ala Gly
 35 40 45

Lys Ser Leu Leu Phe Tyr Ala Gln Asn Cys Pro Lys Met Met Glu Val
 50 55 60

Gly Ala Lys Pro Ala Pro Arg Ala Leu Ser Thr Ala Ala Val His Tyr
 65 70 75 80

Gln Gln Ile Lys Glu Thr Pro Pro Ala Ser Glu Lys Asp Lys Thr Ala
 85 90 95

Lys Ala Lys Val Gln Gln Thr Pro Asp Gly Ser Gln Gln Ser Pro Asp
 100 105 110

Gly Thr Gln Leu Pro Ser Gly His Pro Leu Pro Ala Thr Ser Gln Gly
 115 120 125

Thr Ala Ser Lys Cys Pro Phe Leu Ala Ala Gln Met Asn Gln Arg Gly
 130 135 140

Ser Ser Val Phe Cys Lys Ala Ser Leu Glu Leu Gln Glu Asp Val Gln
 145 150 155 160

Glu Met Asn Ala Val Arg Lys Glu Val Ala Glu Thr Ser Ala Gly Pro
 165 170 175

Ser Val Val Ser Val Lys Thr Asp Gly Gly Asp Pro Ser Gly Leu Leu
 180 185 190

801

Lys Asn Phe Gln Asp Ile Met Gln Lys Gln Arg Pro Glu Arg Val Ser
 195 200 205

His Leu Leu Gln Asp Asn Leu Pro Lys Ser Val Ser Thr Phe Gln Tyr
 210 215 220

Asp Arg Phe Phe Glu Lys Lys Ile Asp Glu Xaa Lys Glu
 225 230 235

<210> 855

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (202)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 855

Thr Pro Gly Ile Phe Thr Glu Gln Ser Met Ile Thr Phe Leu Pro Leu
 1 5 10 15

Leu Leu Gly Leu Ser Leu Gly Cys Thr Gly Ala Gly Gly Phe Val Ala
 20 25 30

His Val Glu Ser Thr Cys Leu Leu Asp Asp Ala Gly Thr Pro Lys Asp
 35 40 45

Phe Thr Tyr Cys Ile Ser Phe Asn Lys Asp Leu Leu Thr Cys Trp Asp
 50 55 60

Pro Glu Glu Asn Lys Met Ala Pro Cys Glu Phe Gly Val Leu Asn Ser
 65 70 75 80

Leu Ala Asn Val Leu Ser Gln His Leu Asn Gln Lys Asp Thr Leu Met
 85 90 95

Gln Arg Leu Arg Asn Gly Leu Gln Asn Cys Ala Thr His Thr Gln Pro
 100 105 110

Phe Trp Gly Ser Leu Thr Asn Arg Thr Arg Pro Pro Ser Val Gln Val
 115 120 125

Ala Lys Thr Thr Pro Phe Asn Thr Arg Glu Pro Val Met Leu Ala Cys
 130 135 140

Tyr Val Trp Gly Phe Tyr Pro Ala Glu Val Thr Ile Thr Trp Arg Lys
 145 150 155 160

3

Arg Gly Leu Lys Ile Tyr Ala Met Glu Ile Ser Asp Asn Pro Gly Glu
85 90 95

803

His Glu Leu Gly Glu Pro Glu Phe Arg Tyr Thr Ala Gly Ile His Gly
 100 105 110

Asn Glu Val Leu Gly Arg Glu Leu Leu Leu Leu Leu Met Gln Tyr Leu
 115 120 125

Cys Arg Glu Tyr Arg Asp Gly Asn Pro Arg Val Arg Ser Trp Cys Arg
 130 135 140

Thr His Ala Ser Thr Trp Cys Pro His
 145 150

<210> 857

<211> 258

<212> PRT

<213> Homo sapiens

<400> 857

Cys Leu Ser Gln Lys Ala Val Arg Ala Pro Arg Phe Leu Arg Gly Leu
 1 5 10 15

Pro Ser Gly Arg Val Asn Cys Phe Leu Gln Ala Gly His Gly Ala Ser
 20 25 30

Arg Ser Gln Gly Ser Gly Leu Cys Gln Met Leu Lys Glu Gly Ala Lys
 35 40 45

His Phe Ser Gly Leu Glu Glu Ala Val Tyr Arg Asn Ile Gln Ala Cys
 50 55 60

Lys Glu Leu Ala Gln Thr Thr Arg Thr Ala Tyr Gly Pro Asn Gly Met
 65 70 75 80

Asn Lys Met Val Ile Asn His Leu Glu Lys Leu Phe Val Thr Asn Asp
 85 90 95

Ala Ala Thr Ile Leu Arg Glu Leu Glu Val Gln His Pro Ala Ala Lys
 100 105 110

Met Ile Val Met Ala Ser His Met Gln Glu Gln Glu Val Gly Asp Gly
 115 120 125

Thr Asn Phe Val Leu Val Phe Ala Gly Ala Leu Leu Glu Leu Ala Glu
 130 135 140

Glu Leu Leu Arg Ile Gly Leu Ser Val Ser Glu Val Ile Glu Gly Tyr
 145 150 155 160

Glu Ile Ala Cys Arg Lys Ala His Glu Ile Leu Pro Asn Leu Val Cys

804

165 170 175
 Cys Ser Ala Lys Asn Leu Arg Asp Ile Asp Glu Val Ser Ser Leu Leu
 180 185 190
 Arg Thr Ser Ile Met Ser Lys Gln Tyr Gly Asn Glu Val Phe Leu Ala
 195 200 205
 Lys Leu Ile Ala Gln Ala Cys Val Ser Ile Phe Pro Asp Ser Gly His
 210 215 220
 Phe Asn Val Asp Asn Ile Arg Val Cys Lys Ile Leu Gly Ser Gly Ile
 225 230 235 240
 Ser Ser Ser Ser Val Leu His Gly Met Val Phe Lys Lys Glu Thr Glu
 245 250 255
 Val Met

<210> 858

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 858

Pro Asp Ser Leu Pro Pro Pro Ser Pro Arg Leu Pro Ala Xaa Gly Pro
 1 5 10 15

Glu Phe Pro Gly Arg Pro Thr Arg Pro Glu Arg Ser Pro Ser Leu Gly
 20 25 30

Ile Pro Lys Cys Phe His Ser Val Ile Arg Thr Glu His Arg Gly Leu
 35 40 45

Thr Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Ala Ala Ile Leu Lys
 50 55 60

Gly Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val

65						70						75						80
Lys	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr			
				85					90					95				
Phe	Ser	Asn	Ala	Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly			
			100					105					110					
Leu	Glu	Trp	Val	Gly	Arg	Ile	Lys	Ser	Lys	Thr	Asp	Gly	Gly	Thr	Thr			
		115					120					125						
Asp	Tyr	Ala	Ala	Pro	Val	Xaa	Arg	Gln	Ile	His	His	Leu	Lys	Arg				
	130					135					140							

Ala Ser Val Leu His Asn Leu Lys Glu Arg Tyr Tyr Ser Gly Leu Ile

806

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          100              105              110
Tyr Val Ser Gly Cys Arg Gly Thr Pro Gln Ala Gly Ser Glu Gly Ser
          115              120              125

Glu Val Gly Xaa Xaa Ala Gly
          130              135

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<210> 860
<211> 52
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 860
Ala Xaa Leu Ile Lys Thr Arg Val Leu Ile Tyr Asn Lys Ser Asn Phe
 1             5             10             15

Ser Leu Ser Leu Gly Thr Ser Asn Cys Thr Pro Gln Ile Thr Asp Thr
      20             25             30

Ser Glu Phe Phe Met Val Lys Lys Ala Pro Thr Leu Thr Tyr Lys Cys
      35             40             45

Gly Pro Arg Asn
      50

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<210> 861
<211> 321
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<400> 861
Ala His Gly Val Thr Ser Ala Pro Asp Asn Arg Pro Ala Leu Gly Ser
 1             5             10             15
Thr Xaa Pro Pro Val His Asn Val Thr Ser Ala Ser Gly Ser Ala Ser
          20             25             30

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807

Gly Ser Ala Ser Thr Leu Val His Asn Gly Thr Ser Ala Arg Ala Thr
 35 40 45
 Thr Thr Pro Ala Ser Lys Ser Thr Pro Phe Ser Ile Pro Ser His His
 50 55 60
 Ser Asp Thr Pro Thr Thr Leu Ala Ser His Ser Thr Lys Thr Asp Ala
 65 70 75 80
 Ser Ser Thr His His Ser Thr Val Pro Pro Leu Thr Ser Ser Asn His
 85 90 95
 Ser Thr Ser Pro Gln Leu Ser Thr Gly Val Ser Phe Phe Phe Leu Ser
 100 105 110
 Phe His Ile Ser Asn Leu Gln Phe Asn Ser Ser Leu Glu Asp Pro Ser
 115 120 125
 Thr Asp Tyr Tyr Gln Glu Leu Gln Arg Asp Ile Ser Glu Met Phe Leu
 130 135 140
 Gln Ile Tyr Lys Gln Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe
 145 150 155 160
 Arg Pro Gly Ser Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly
 165 170 175
 Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr
 180 185 190
 Glu Ala Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser
 195 200 205
 Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala Gly Val Pro Gly
 210 215 220
 Trp Gly Ile Ala Leu Leu Val Leu Val Cys Val Leu Val Ala Leu Ala
 225 230 235 240
 Ile Val Tyr Leu Ile Ala Leu Ala Val Cys Gln Cys Arg Arg Lys Asn
 245 250 255
 Tyr Gly Gln Leu Asp Ile Phe Pro Ala Arg Asp Thr Tyr His Pro Met
 260 265 270
 Ser Glu Tyr Pro Thr Tyr His Thr His Gly Arg Tyr Val Pro Pro Ser
 275 280 285
 Ser Thr Asp Arg Ser Pro Tyr Glu Lys Val Ser Ala Gly Asn Gly Gly
 290 295 300

808

Ser Ser Leu Ser Tyr Thr Asn Pro Ala Val Ala Ala Thr Ser Ala Asn
 305 310 315 320

Leu

<210> 862

<211> 327

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 862

Phe Gly Thr Ser Leu Thr Gln Val Leu Leu Gly Ala Gly Glu Asn Thr
 1 5 10 15

Lys Thr Asn Leu Glu Ser Ile Leu Ser Tyr Pro Lys Asp Phe Thr Cys
 20 25 30

Val His Gln Ala Leu Lys Gly Phe Thr Thr Lys Gly Val Thr Ser Val
 35 40 45

Ser Gln Ile Phe His Ser Pro Asp Leu Ala Ile Arg Asp Thr Phe Val
 50 55 60

Asn Ala Ser Arg Thr Leu Tyr Ser Ser Ser Pro Arg Val Leu Ser Asn
 65 70 75 80

Asn Ser Asp Ala Asn Leu Glu Leu Ile Asn Thr Trp Val Ala Lys Asn
 85 90 95

Thr Asn Asn Lys Ile Ser Arg Leu Leu Asp Ser Leu Pro Ser Asp Thr
 100 105 110

Arg Leu Val Leu Leu Asn Ala Ile Tyr Leu Ser Ala Lys Trp Lys Thr
 115 120 125

Thr Phe Asp Pro Lys Lys Thr Arg Met Glu Pro Phe His Phe Lys Asn
 130 135 140

Ser Val Ile Lys Val Pro Met Met Asn Ser Lys Lys Tyr Pro Val Ala
 145 150 155 160

His Phe Ile Asp Gln Thr Leu Lys Ala Lys Val Gly Gln Leu Gln Leu

809

	165		170		175
Ser His Asn Leu Ser Leu Val Ile Leu Val Pro Gln Asn Leu Lys His	180	185	190		
Arg Leu Glu Asp Met Glu Gln Ala Leu Ser Pro Ser Val Phe Lys Ala	195	200	205		
Ile Met Glu Lys Leu Glu Met Ser Lys Phe Gln Pro Thr Leu Leu Thr	210	215	220		
Leu Pro Arg Ile Lys Val Thr Thr Ser Gln Asp Met Leu Ser Ile Met	225	230	235	240	
Glu Lys Leu Glu Phe Phe Asp Phe Ser Tyr Asp Leu Asn Leu Cys Gly	245	250	255		
Leu Thr Glu Asp Pro Asp Leu Gln Val Ser Ala Met Gln His Gln Thr	260	265	270		
Val Leu Glu Leu Thr Glu Thr Gly Val Glu Ala Ala Ala Ala Ser Ala	275	280	285		
Ile Ser Val Ala Arg Thr Leu Leu Val Phe Glu Val Gln Gln Pro Phe	290	295	300		
Leu Phe Xaa Leu Trp Asp Gln Gln His Lys Phe Pro Val Phe Met Gly	305	310	315	320	
Arg Val Tyr Asp Pro Arg Ala	325				

<210> 863

<211> 86

<212> PRT

<213> Homo sapiens

<400> 863

Tyr Tyr Ile Val His Leu Lys Leu Thr Glu Arg Val Asn Leu Lys Cys	1	5	10	15
Ser His His Thr Asn Pro Lys Val Thr Met Phe Ser Pro His Lys Pro	20	25	30	
Lys Gly Asn Tyr Val Leu Ile Ser Leu Ile Val Val Thr Ile Ser Gln	35	40	45	
Cys Ile His Leu Pro Lys His Tyr Val Val Tyr Leu Glu Tyr Ile Ile	50	55	60	

810

Leu Phe Ile Asn Tyr Thr Ser Ile Lys Leu Lys Glu Gly Ile Thr Asn
 65 70 75 80

Ser His Lys Ile Gln Ile
 85

<210> 864

<211> 130

<212> PRT

<213> Homo sapiens

<400> 864

Leu Thr Gln Gln Gln Pro Ala Thr Gly Pro Gln Pro Ser Leu Gly
 1 5 10 15

Val Ser Phe Gly Thr Pro Phe Gly Ser Gly Ile Gly Thr Gly Leu Gln
 20 25 30

Ser Ser Gly Leu Gly Ser Ser Asn Leu Gly Gly Phe Gly Thr Ser Ser
 35 40 45

Gly Phe Gly Cys Ser Thr Thr Gly Ala Ser Thr Phe Gly Phe Gly Thr
 50 55 60

Thr Asn Lys Pro Ser Gly Ser Leu Ser Ala Gly Phe Gly Ser Ser Ser
 65 70 75 80

Thr Ser Gly Phe Asn Phe Ser Asn Pro Gly Ile Thr Ala Ser Ala Gly
 85 90 95

Leu Thr Phe Gly Val Ser Asn Pro Ala Ser Ala Gly Phe Gly Thr Gly
 100 105 110

Gly Gln Leu Leu Gln Leu Lys Lys Pro Pro Ala Gly Asn Lys Arg Gly
 115 120 125

Lys Arg
 130

<210> 865

<211> 78

<212> PRT

<213> Homo sapiens

<400> 865

Ser Glu Trp Lys Ile Lys Gly Pro Ser Ser Pro Leu Ala Ser Leu Pro

811

1 5 10 15
 Gly Arg Arg His Gly Gly Ser Ser Ala Thr Gly Ala Cys Gly Glu Ala
 20 25 30
 Met Ala Ala Ala Glu Gly Ser Ser Gly Pro Ala Gly Leu Thr Leu Gly
 35 40 45
 Arg Ser Phe Ser Asn Tyr Arg Pro Phe Glu Pro Gln Ala Leu Gly Leu
 50 55 60
 Ser Pro Ser Trp Arg Leu Thr Gly Phe Ser Gly Met Lys Gly
 65 70 75

<210> 866

<211> 529

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (517)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 866

Pro Pro Pro Glu Pro Arg Ala Xaa Met Ala Glu Asn Pro Ser Leu Glu
 1 5 10 15

Asn His Arg Ile Lys Ser Phe Lys Asn Lys Gly Arg Asp Val Glu Thr
 20 25 30

Met Arg Arg His Arg Asn Glu Val Thr Val Glu Leu Arg Lys Asn Lys
 35 40 45

Arg Asp Glu His Leu Leu Lys Lys Arg Asn Val Pro Gln Glu Glu Ser
 50 55 60

Leu Glu Asp Ser Asp Val Asp Ala Asp Phe Lys Ala Gln Asn Val Thr
 65 70 75 80

Leu Glu Ala Ile Leu Gln Asn Ala Thr Ser Asp Asn Pro Val Val Gln
 85 90 95

Leu Ser Ala Val Gln Ala Ala Arg Lys Leu Leu Ser Ser Asp Arg Asn

812

100	105	110
Pro Pro Ile Asp Asp Leu Ile Lys Ser Gly Ile Leu Pro Ile Leu Val		
115	120	125
Lys Cys Leu Glu Arg Asp Asp Asn Pro Ser Leu Gln Phe Glu Ala Ala		
130	135	140
Trp Ala Leu Thr Asn Ile Ala Ser Gly Thr Ser Ala Gln Thr Gln Ala		
145	150	155
Val Val Gln Ser Asn Ala Val Pro Leu Phe Leu Arg Leu Leu Arg Ser		
165	170	175
Pro His Gln Asn Val Cys Glu Gln Ala Val Trp Ala Leu Gly Asn Ile		
180	185	190
Ile Gly Asp Gly Pro Gln Cys Arg Asp Tyr Val Ile Ser Leu Gly Val		
195	200	205
Val Lys Pro Leu Leu Ser Phe Ile Ser Pro Ser Ile Pro Ile Thr Phe		
210	215	220
Leu Arg Asn Val Thr Trp Val Ile Val Asn Leu Cys Arg Asn Lys Asp		
225	230	235
Pro Pro Pro Pro Met Glu Thr Val Gln Glu Ile Leu Pro Ala Leu Cys		
245	250	255
Val Leu Ile Tyr His Thr Asp Ile Asn Ile Leu Val Asp Thr Val Trp		
260	265	270
Ala Leu Ser Tyr Leu Thr Asp Gly Gly Asn Glu Gln Ile Gln Met Val		
275	280	285
Ile Asp Ser Gly Val Val Pro Phe Leu Val Pro Leu Leu Ser His Gln		
290	295	300
Glu Val Lys Val Gln Thr Ala Ala Leu Arg Ala Val Gly Asn Ile Val		
305	310	315
Thr Gly Thr Asp Glu Gln Thr Gln Val Val Leu Asn Cys Asp Val Leu		
325	330	335
Ser His Phe Pro Asn Leu Leu Ser His Pro Lys Glu Lys Ile Asn Lys		
340	345	350
Glu Ala Val Trp Phe Leu Ser Asn Ile Thr Ala Gly Asn Gln Gln Gln		
355	360	365
Val Gln Ala Val Ile Asp Ala Gly Leu Ile Pro Met Ile Ile His Gln		

813

370 375 380
 Leu Ala Lys Gly Asp Phe Gly Thr Gln Lys Glu Ala Ala Trp Ala Ile
 385 390 395 400
 Ser Asn Leu Thr Ile Ser Gly Arg Lys Asp Gln Val Glu Tyr Leu Val
 405 410 415
 Gln Gln Asn Val Ile Pro Pro Phe Cys Asn Leu Leu Ser Val Lys Asp
 420 425 430
 Ser Gln Val Val Gln Val Val Leu Asp Gly Leu Lys Asn Ile Leu Ile
 435 440 445
 Met Ala Gly Asp Glu Ala Ser Thr Ile Ala Glu Ile Ile Glu Glu Cys
 450 455 460
 Gly Gly Leu Glu Lys Ile Glu Val Leu Gln Gln His Glu Asn Glu Asp
 465 470 475 480
 Ile Tyr Lys Leu Ala Phe Glu Ile Ile Asp Gln Tyr Phe Ser Gly Asp
 485 490 495
 Asp Ile Asp Glu Asp Pro Cys Leu Ile Pro Glu Ala Thr Gln Gly Gly
 500 505 510
 Thr Tyr Asn Phe Xaa Pro Thr Ala Asn Leu Gln Thr Lys Glu Phe Asn
 515 520 525

Phe

<210> 867

<211> 237

<212> PRT

<213> Homo sapiens

<400> 867

Arg Pro Gly Pro Val Arg Arg Arg Gly Lys Val Glu Leu Ile Lys Phe
 1 5 10 15
 Val Arg Val Gln Trp Arg Arg Pro Gln Val Glu Trp Arg Arg Arg Arg
 20 25 30
 Trp Gly Pro Gly Pro Gly Ala Ser Met Ala Gly Ser Glu Glu Leu Gly
 35 40 45
 Leu Arg Glu Asp Thr Leu Arg Val Leu Ala Ala Phe Leu Arg Arg Gly
 50 55 60

814

Glu Ala Ala Gly Ser Pro Val Pro Thr Pro Pro Arg Ser Pro Ala Gln
 65 70 75 80
 Glu Glu Pro Thr Asp Phe Leu Ser Arg Leu Arg Arg Cys Leu Pro Cys
 85 90 95
 Ser Leu Gly Arg Gly Ala Ala Pro Ser Glu Ser Pro Arg Pro Cys Ser
 100 105 110
 Leu Pro Ile Arg Pro Cys Tyr Gly Leu Glu Pro Gly Pro Ala Thr Pro
 115 120 125
 Asp Phe Tyr Ala Leu Val Ala Gln Arg Leu Glu Gln Leu Val Gln Glu
 130 135 140
 Gln Leu Lys Ser Pro Pro Ser Pro Glu Leu Gln Gly Pro Pro Ser Thr
 145 150 155 160
 Glu Lys Glu Ala Ile Leu Arg Arg Leu Val Ala Leu Leu Glu Glu Glu
 165 170 175
 Ala Glu Val Ile Asn Gln Lys Leu Ala Ser Asp Pro Ala Leu Arg Thr
 180 185 190
 Ser Trp Ser Ala Cys Pro Pro Thr Leu Ser Pro Ala Trp Trp Ser Cys
 195 200 205
 Ser Val Ala Gly Met Thr Ala Leu Ala Gln Ala Glu His Ala Pro Gly
 210 215 220
 Pro Arg Leu Leu Pro Arg Ser Pro Trp Pro Ala Trp Pro
 225 230 235

<210> 868

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

815

<400> 868

Leu Ser Val Ser Ala Xaa Ala Ala Xaa Val Ala Ala Ala Ala Ile His
 1 5 10 15

Ser Asp Ser Ala Ala Ala Pro Gly Gly Gly Gly Ala Ala Arg Asp Phe
 20 25 30

Phe Phe Phe Gln Thr Asp Arg Gly Ala Ala Ala Asp Met Ser Thr Pro
 35 40 45

Ala Arg Arg Arg Leu Met Arg Asp Phe Lys Arg Leu Gln Glu Asp Pro
 50 55 60

Pro Val Gly Val Ser Gly Ala Pro Ser Glu Asn Asn Ile Met Gln Trp
 65 70 75 80

Asn Ala Val Ile Phe Gly Pro Glu Gly Thr Pro Phe Glu Asp Gly Thr
 85 90 95

Phe Lys Leu Val Ile Glu Phe Ser Glu Glu Tyr Pro Asn Lys Pro Pro
 100 105 110

Thr Val Arg Phe Leu Ser Lys Met Phe His Pro Asn Val Tyr Ala Asp
 115 120 125

Gly Ser Ile Cys Leu Asp Ile Leu Gln Asn Arg Trp Ser Pro Thr Tyr
 130 135 140

Asp Val Ser Ser Ile Leu Thr Ser Ile Gln Ser Leu Leu Asp Glu Pro
 145 150 155 160

Asn Pro Asn Ser Pro Ala Asn Ser Gln Ala Ala Gln Leu Tyr Gln Glu
 165 170 175

Asn Lys Arg Glu Tyr Glu Lys Arg Val Ser Ala Ile Val Glu Gln Ser
 180 185 190

Trp Asn Asp Ser
 195

<210> 869

<211> 544

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

816

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 869

Ala	Asp	Ala	Trp	Val	Ala	Xaa	Ala	Xaa	Ala	Ser	Ser	Gly	Leu	Val	Val
1				5					10				15		
Ala	Arg	Pro	Thr	Ser	Ala	Val	Pro	Ala	Glu	Pro	Arg	Pro	Phe	Arg	Pro
			20					25					30		
Ser	Pro	Pro	His	Leu	Ala	Ala	Met	Arg	Leu	Arg	Arg	Leu	Ala	Leu	Phe
			35				40					45			
Pro	Gly	Val	Ala	Leu	Leu	Leu	Ala	Ala	Ala	Arg	Leu	Ala	Ala	Ala	Ser
	50					55					60				
Asp	Val	Leu	Glu	Leu	Thr	Asp	Asp	Asn	Phe	Glu	Ser	Arg	Ile	Ser	Asp
65					70					75					80
Thr	Gly	Ser	Ala	Gly	Leu	Met	Leu	Val	Glu	Phe	Phe	Ala	Pro	Trp	Cys
				85					90					95	
Gly	His	Cys	Lys	Arg	Leu	Ala	Pro	Glu	Tyr	Glu	Ala	Ala	Ala	Thr	Arg
			100					105						110	
Leu	Lys	Gly	Ile	Val	Pro	Leu	Ala	Lys	Val	Asp	Cys	Thr	Ala	Asn	Thr
		115					120					125			
Asn	Thr	Cys	Asn	Lys	Tyr	Gly	Val	Ser	Gly	Tyr	Pro	Thr	Leu	Lys	Ile
	130					135					140				
Phe	Arg	Asp	Gly	Glu	Glu	Ala	Gly	Ala	Tyr	Asp	Gly	Pro	Arg	Thr	Ala
145					150					155					160
Asp	Gly	Ile	Val	Ser	His	Leu	Lys	Lys	Gln	Ala	Gly	Pro	Ala	Ser	Val
			165						170					175	
Pro	Leu	Arg	Thr	Glu	Glu	Glu	Phe	Lys	Lys	Phe	Ile	Ser	Asp	Lys	Asp
			180					185					190		
Ala	Ser	Ile	Val	Gly	Phe	Phe	Asp	Asp	Ser	Phe	Ser	Glu	Ala	His	Ser
			195				200					205			
Glu	Phe	Leu	Lys	Ala	Ala	Ser	Asn	Leu	Arg	Asp	Asn	Tyr	Arg	Phe	Ala
	210					215					220				
His	Thr	Asn	Val	Glu	Ser	Leu	Val	Asn	Glu	Tyr	Asp	Asp	Asn	Gly	Glu
225					230					235					240

Gly	Ile	Ile	Leu	Phe	Arg	Pro	Ser	His	Leu	Thr	Asn	Lys	Phe	Glu	Asp	245	250	255	
Lys	Thr	Val	Ala	Tyr	Thr	Glu	Gln	Lys	Met	Thr	Ser	Gly	Lys	Ile	Lys	260	265	270	
Lys	Phe	Ile	Gln	Glu	Asn	Ile	Phe	Gly	Ile	Cys	Pro	His	Met	Thr	Glu	275	280	285	
Asp	Asn	Lys	Asp	Leu	Ile	Gln	Gly	Lys	Asp	Leu	Leu	Ile	Ala	Tyr	Tyr	290	295	300	
Asp	Val	Asp	Tyr	Glu	Lys	Asn	Ala	Lys	Gly	Ser	Asn	Tyr	Trp	Arg	Asn	305	310	315	320
Arg	Val	Met	Met	Val	Ala	Lys	Lys	Phe	Leu	Asp	Ala	Gly	His	Lys	Leu	325	330	335	
Asn	Phe	Ala	Val	Ala	Ser	Arg	Lys	Thr	Phe	Ser	His	Glu	Leu	Ser	Asp	340	345	350	
Phe	Gly	Leu	Glu	Ser	Thr	Ala	Gly	Glu	Ile	Pro	Val	Val	Ala	Ile	Arg	355	360	365	
Thr	Ala	Lys	Gly	Glu	Lys	Phe	Val	Met	Gln	Glu	Glu	Phe	Ser	Arg	Asp	370	375	380	
Gly	Lys	Ala	Leu	Glu	Arg	Phe	Leu	Gln	Asp	Tyr	Phe	Asp	Gly	Asn	Leu	385	390	395	400
Lys	Arg	Tyr	Leu	Lys	Ser	Glu	Pro	Ile	Pro	Glu	Ser	Asn	Asp	Gly	Pro	405	410	415	
Val	Lys	Val	Val	Val	Ala	Glu	Asn	Phe	Asp	Glu	Ile	Val	Asn	Asn	Glu	420	425	430	
Asn	Lys	Asp	Val	Leu	Ile	Glu	Phe	Tyr	Ala	Pro	Trp	Cys	Gly	His	Cys	435	440	445	
Lys	Asn	Leu	Glu	Pro	Lys	Tyr	Lys	Glu	Leu	Gly	Glu	Lys	Leu	Ser	Lys	450	455	460	
Asp	Pro	Asn	Ile	Val	Ile	Ala	Lys	Met	Asp	Ala	Thr	Ala	Asn	Asp	Val	465	470	475	480
Pro	Ser	Pro	Tyr	Glu	Val	Arg	Gly	Phe	Pro	Thr	Ile	Tyr	Phe	Ser	Pro	485	490	495	
Ala	Asn	Lys	Lys	Leu	Asn	Pro	Lys	Lys	Tyr	Glu	Gly	Gly	Arg	Glu	Leu	500	505	510	

Ser Asp Phe Ile Ser Tyr Leu Gln Arg Glu Ala Thr Asn Pro Pro Val
 515 520 525

Ile Gln Glu Glu Lys Pro Lys Lys Lys Lys Lys Ala Gln Glu Asp Leu
 530 535 540

<210> 870

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 870

Arg Arg Xaa Ala Ile Phe Thr Cys Glu Val Pro Gly Val Tyr Tyr Phe
 1 5 10 15

Xaa Tyr His Val His Cys Lys Gly Gly Asn Val Trp Val Ala Leu Phe
 20 25 30

Lys Asn Asn Glu Pro Val Met Tyr Thr Tyr Asp Glu Tyr Lys Lys Gly
 35 40 45

Phe Leu Asp Gln Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro Gly
 50 55 60

Asp Arg Cys Ser Ser Arg Cys Pro Gln Asn Arg Leu Gln Asp Cys Met
 65 70 75 80

Pro Gly Ser Met Ser Thr Pro Pro Phe Gln Asp Ile Tyr Cys Ile Pro
 85 90 95

Cys Lys Asn Lys Lys Thr Lys Asn Lys Glu Lys Lys Glu Ile Leu
 100 105 110

819

<210> 871
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 871
 Gly Lys Thr Glu Val Asn Tyr Thr Gln Leu Val Asp Leu His Ala Arg
 1 5 10 15
 Tyr Ala Glu Cys Gly Leu Arg Ile Leu Ala Phe Pro Cys Asn Gln Phe
 20 25 30
 Gly Lys Gln Glu Pro Gly Ser Asn Glu Glu Ile Lys Glu Phe Ala Ala
 35 40 45
 Gly Tyr Asn Val Lys Phe Asp Met Phe Ser Lys Ile Cys Val Asn Gly
 50 55 60
 Asp Asp Ala His Pro Leu Trp Lys Trp Met Lys Ile Gln Pro Lys Gly
 65 70 75 80
 Lys Gly Ile Leu Gly Asn Ala Ile Lys Trp Asn Phe Thr Lys Phe Leu
 85 90 95
 Ile Asp Lys Asn Gly Cys Val Val Lys Arg Tyr Gly Pro Met Glu Glu
 100 105 110
 Pro Leu Val Ile Glu Lys Asp Leu Pro His Tyr Phe
 115 120

<210> 872
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 872
 Ser Gln His Phe Gly Arg Pro Arg Gln Ala Glu His Leu Lys Glu Phe
 1 5 10 15
 Lys Thr Ser Val Ala Asn Val Val Asn Pro Val Ser Thr Lys Asn Thr
 20 25 30
 Lys Ile Val
 35

<210> 873
 <211> 420

820

<212> PRT

<213> Homo sapiens

<400> 873

Val	Cys	Leu	Gln	Leu	Cys	Gln	Ser	Thr	Val	Ser	Cys	Pro	Leu	Gly	Tyr	1	5	10	15
Leu	Ala	Ser	Thr	Ala	Thr	Asn	Asp	Cys	Gly	Cys	Thr	Thr	Thr	Thr	Cys	20	25	30	
Leu	Pro	Asp	Lys	Val	Cys	Val	His	Arg	Ser	Thr	Ile	Tyr	Pro	Val	Gly	35	40	45	
Gln	Phe	Trp	Glu	Glu	Gly	Cys	Asp	Val	Cys	Thr	Cys	Thr	Asp	Met	Glu	50	55	60	
Asp	Ala	Val	Met	Gly	Leu	Arg	Val	Ala	Gln	Cys	Ser	Gln	Lys	Pro	Cys	65	70	75	80
Glu	Asp	Ser	Cys	Arg	Ser	Gly	Phe	Thr	Tyr	Val	Leu	His	Glu	Gly	Glu	85	90	95	
Cys	Cys	Gly	Arg	Cys	Leu	Pro	Ser	Ala	Cys	Glu	Val	Val	Thr	Gly	Ser	100	105	110	
Pro	Arg	Gly	Asp	Ser	Gln	Ser	Ser	Trp	Lys	Ser	Val	Gly	Ser	Gln	Trp	115	120	125	
Ala	Ser	Pro	Glu	Asn	Pro	Cys	Leu	Ile	Asn	Glu	Cys	Val	Arg	Val	Lys	130	135	140	
Glu	Glu	Val	Phe	Ile	Gln	Gln	Arg	Asn	Val	Ser	Cys	Pro	Gln	Leu	Glu	145	150	155	160
Val	Pro	Val	Cys	Pro	Ser	Gly	Phe	Gln	Leu	Ser	Cys	Lys	Thr	Ser	Ala	165	170	175	
Cys	Cys	Pro	Ser	Cys	Arg	Cys	Glu	Arg	Met	Glu	Ala	Cys	Met	Leu	Asn	180	185	190	
Gly	Thr	Val	Ile	Gly	Pro	Gly	Lys	Thr	Val	Met	Ile	Asp	Val	Cys	Thr	195	200	205	
Thr	Cys	Arg	Cys	Met	Val	Gln	Val	Gly	Val	Ile	Ser	Gly	Phe	Lys	Leu	210	215	220	
Glu	Cys	Arg	Lys	Thr	Thr	Cys	Asn	Pro	Cys	Pro	Leu	Gly	Tyr	Lys	Glu	225	230	235	240
Glu	Asn	Asn	Thr	Gly	Glu	Cys	Cys	Gly	Arg	Cys	Leu	Pro	Thr	Ala	Cys	245	250	255	

821

Thr Ile Gln Leu Arg Gly Gly Gln Ile Met Thr Leu Lys Arg Asp Glu
 260 265 270
 Thr Leu Gln Asp Gly Cys Asp Thr His Phe Cys Lys Val Asn Glu Arg
 275 280 285
 Gly Glu Tyr Phe Trp Glu Lys Arg Val Thr Gly Cys Pro Pro Phe Asp
 290 295 300
 Glu His Lys Cys Leu Ala Glu Gly Gly Lys Ile Met Lys Ile Pro Gly
 305 310 315 320
 Thr Cys Cys Asp Thr Cys Glu Glu Pro Glu Cys Asn Asp Ile Thr Ala
 325 330 335
 Arg Leu Gln Tyr Val Lys Val Gly Ser Cys Lys Ser Glu Val Glu Val
 340 345 350
 Asp Ile His Tyr Cys Gln Gly Lys Cys Ala Ser Lys Ala Met Tyr Ser
 355 360 365
 Ile Asp Ile Asn Asp Val Gln Asp Gln Cys Ser Cys Cys Ser Pro Thr
 370 375 380
 Arg Thr Glu Pro Met Gln Val Ala Leu His Cys Thr Asn Gly Ser Val
 385 390 395 400
 Val Tyr His Glu Val Leu Asn Ala Met Glu Cys Lys Cys Ser Pro Arg
 405 410 415
 Lys Cys Ser Lys
 420

<210> 874

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

822

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 874

Arg Gln Val Pro His Glu Arg Ala Val Arg Asp Gly Arg Gly Gly Gly
 1 5 10 15

Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser
 20 25 30

Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln
 35 40 45

Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala
 50 55 60

Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr
 65 70 75 80

Asp Ser Pro Phe Pro Asn Ser Cys Ala Xaa Gly Met Ala Asn Gly Asp
 85 90 95

Ala Pro Cys Met Gly Ala Xaa Lys Arg Gly Gly Cys Gly Gly Tyr Ala
 100 105 110

Gln Trp Thr Arg Tyr Thr Cys Gln Arg Pro Ser Ala Arg Ser Phe Arg
 115 120 125

Phe Leu Pro Phe Leu Ser Arg His Val Arg Arg Leu Ser Pro Xaa Ser
 130 135 140

Ser Lys Ser Val Gly Ser Leu
 145 150

<210> 875

<211> 95

<212> PRT

<213> Homo sapiens

<400> 875

Ala Leu Asn Leu Asn Ser Gln Leu Asn Ile Pro Lys Asp Thr Ser Gln
 1 5 10 15

Leu Lys Lys His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly
 20 25 30

Arg Leu Cys Leu Ser Thr Asp Ala Ala Ala Pro Gln Thr Met Val Met

823

35	40	45
Pro Gly Gly Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser		
50	55	60
Val Glu Gln Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr		
65	70	75
Ala Glu Thr Pro Arg Pro Val Ser Pro Leu Gln Gly Val Ser Glu		
85	90	95

<210> 876

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 876

Thr Lys Lys Ala Leu Glu Xaa Ser Asn Xaa Arg Phe Ala Ala Xaa Phe
1 5 10 15

Phe Arg Thr Xaa Trp Asn Pro Pro Gly Ala Phe Lys Glu Phe Gly Thr
20 25 30

Ser Leu Leu Arg Arg Arg Arg Gly Ser Gly Ala Asn Met Pro Val Ala
35 40 45

Arg Ser Trp Val Cys Arg Lys Thr Tyr Val Thr Pro Arg Arg Pro Phe
50 55 60

824

Glu Lys Ser Arg Leu Asp Gln Glu Leu Lys Leu Ile Gly Glu Tyr Gly
 65 70 75 80
 Leu Arg Asn Lys Arg Glu Val Trp Arg Val Lys Phe Thr Leu Ala Lys
 85 90 95
 Ile Arg Lys Ala Ala Arg Glu Leu Leu Thr Leu Asp Glu Lys Asp Pro
 100 105 110
 Arg Arg Leu Phe Glu Gly Asn Ala Leu Leu Arg Arg Leu Val Arg Ile
 115 120 125
 Gly Val Leu Asp Glu Gly Lys Met Lys Leu Asp Tyr Ile Leu Gly Leu
 130 135 140
 Lys Ile Glu Asp Phe Leu Glu Arg Arg Leu Gln Thr Gln Val Phe Lys
 145 150 155 160
 Leu Gly Leu Ala Lys Ser Ile His His Ala Arg Val Leu Ile Arg Gln
 165 170 175
 Arg His Ile Arg Val Arg Lys Gln Val Val Asn Ile Pro Ser Phe Ile
 180 185 190
 Val Arg Leu Asp Ser Gln Lys His Ile Asp Phe Ser Leu Arg Ser Pro
 195 200 205
 Tyr Gly Gly Gly Arg Pro Gly Arg Val Lys Arg Lys Asn Ala Lys Lys
 210 215 220
 Gly Gln Gly Gly Ala Gly Ala Gly Asp Asp Glu Glu Glu Asp
 225 230 235

<210> 877

<211> 79

<212> PRT

<213> Homo sapiens

<400> 877

Ala Gly Ile Arg His Glu Pro Ser Ala Ala Ala Met Ser Ser Gly Ala
 1 5 10 15
 Ser Ala Ser Ala Leu Gln Arg Leu Val Glu Gln Leu Lys Leu Glu Ala
 20 25 30
 Gly Val Glu Arg Ile Lys Val Ser Gln Ala Ala Ala Glu Leu Gln Gln
 35 40 45
 Tyr Cys Met Gln Asn Ala Cys Lys Asp Ala Leu Leu Val Gly Val Pro

825

50 55 60
 Ala Gly Ser Asn Pro Phe Arg Glu Pro Arg Ser Cys Ala Leu Leu
 65 70 75

 <210> 878
 <211> 136
 <212> PRT
 <213> Homo sapiens

 <400> 878
 Ile Ala Ile Met Asn Asp Thr Val Thr Ile Arg Thr Arg Lys Phe Met
 1 5 10 15
 Thr Asn Arg Leu Leu Gln Arg Lys Gln Met Val Ile Asp Val Leu His
 20 25 30
 Pro Gly Lys Ala Thr Val Pro Lys Thr Glu Ile Arg Glu Lys Leu Ala
 35 40 45
 Lys Met Tyr Lys Thr Thr Pro Asp Val Ile Phe Val Phe Gly Phe Arg
 50 55 60
 Thr His Phe Gly Gly Gly Lys Thr Thr Gly Phe Gly Met Ile Tyr Asp
 65 70 75 80
 Ser Leu Asp Tyr Ala Lys Lys Asn Glu Pro Lys His Arg Leu Ala Arg
 85 90 95
 His Gly Leu Tyr Glu Lys Lys Lys Thr Ser Arg Lys Gln Arg Lys Glu
 100 105 110
 Arg Lys Asn Arg Met Lys Lys Val Arg Gly Thr Ala Lys Ala Asn Val
 115 120 125
 Gly Ala Gly Lys Lys Pro Lys Glu
 130 135

<210> 879
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 879
 Gly Cys Val Gly Val Arg Pro Ser Leu His Pro Ala Thr Ser Thr Ala
 1 5 10 15

826

Ser Gly Ser Ala Ser Pro Thr Leu Ala Arg Ala Met Ala Ser Val Ser
20 25 30

Glu Leu Ala Cys Ile Tyr Ser Ala Leu Ile Leu His Asp Asp Glu Val
35 40 45

Thr Val Thr Glu Asp Lys Ile Asn Ala Leu Ile Lys Ala Ala Gly Val
50 55 60

Asn Val Glu Pro Phe Trp Pro Gly Leu Phe Ala Lys Ala Leu Ala Asn
65 70 75 80

Val Asn Ile Gly Ser Leu Ile Cys Asn Val Gly Ala Gly Gly Pro Ala
85 90 95

Pro Ala Ala Gly Ala Ala Pro Ala Gly Gly Pro Ala Pro Ser Thr Ala
100 105 110

Ala Ala Pro Ala Glu Glu Lys Lys Val Glu Ala Lys Lys Glu Glu Ser
115 120 125

Glu Glu Ser Asp Asp Asp Met Gly Phe Gly Leu Phe Asp
130 135 140

<210> 880

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

827

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 880

Ser	Ala	Gly	Ala	His	Ala	His	Gly	Ala	Arg	Glu	Leu	Ala	Xaa	Phe	Leu
1				5					10					15	

Thr	Pro	Xaa	Pro	Gly	Ala	Glu	Ala	Lys	Glu	Val	Glu	Glu	Thr	Ile	Glu
			20					25					30		

Gly	Met	Leu	Leu	Arg	Leu	Glu	Glu	Phe	Cys	Ser	Leu	Ala	Asp	Leu	Ile
		35					40					45			

Arg	Ser	Asp	Thr	Ser	Gln	Ile	Leu	Glu	Glu	Asn	Ile	Pro	Val	Leu	Lys
	50					55					60				

Ala	Lys	Leu	Thr	Glu	Met	Arg	Gly	Ile	Tyr	Ala	Lys	Val	Asp	Arg	Leu
65						70				75					80

Glu	Ala	Phe	Val	Lys	Met	Val	Gly	His	His	Val	Ala	Phe	Leu	Glu	Ala
				85					90					95	

Asp	Val	Leu	Gln	Ala	Glu	Arg	Asp	His	Gly	Ala	Phe	Pro	Gln	Ala	Leu
			100					105					110		

Arg	Arg	Trp	Leu	Gly	Ser	Ala	Gly	Ser	Pro	Pro	Ser	Gly	Thr	Ser	Xaa
		115					120					125			

Leu	Xaa	Xaa	Cys	Pro
	130			

<210> 881

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

828

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 881

Ile	Glu	Glu	Pro	Arg	Asp	Thr	Arg	Leu	Gln	Val	Cys	Ser	Xaa	Val	His
1				5				10						15	

Ile	Trp	Cys	Leu	Asp	Lys	Phe	Lys	Met	Arg	Lys	His	Arg	His	Leu	Pro
			20					25					30		

Leu	Val	Ala	Val	Phe	Cys	Leu	Phe	Leu	Ser	Gly	Phe	Pro	Thr	Thr	His
		35					40					45			

Ala	Gln	Gln	Gln	Gln	Ala	Val	Ile	Glu	Val	Asn	Lys	Arg	Asp	Ile	Val
	50					55					60				

Phe	Leu	Val	Asp	Gly	Ser	Ser	Ala	Leu	Gly	Leu	Ala	Asn	Phe	Asn	Ala
65					70					75					80

Ile	Arg	Asp	Phe	Ile	Ala	Lys	Val	Ile	Gln	Arg	Leu	Glu	Ile	Gly	Gln
			85						90					95	

Asp	Leu	Ile	Gln	Val	Ala	Val	Ala	Gln	Tyr	Ala	Asp	Thr	Val	Arg	Pro
		100						105						110	

Glu	Phe	Tyr	Phe	Asn	Thr	His	Pro	Thr	Lys	Arg	Xaa	Val	Ile	Thr	Ala
	115						120					125			

Val	Arg	Lys	Met	Lys	Pro	Leu	Xaa	Gly	Ser	Ala	Leu	Tyr	Thr	Gly	Ser
	130					135					140				

Ala	Leu	Asp	Phe	Val	Arg	Asn	Asn	Leu	Phe	Thr	Ser	Ser	Ala	Gly	Tyr
145					150					155				160	

Arg	Ala	Ala	Glu	Gly	Ile	Pro	Lys	Leu	Leu	Xaa	Leu	Ile	Thr	Gly	Gly
			165					170						175	

Lys	Ser	Leu	Asp	Glu	Ile	Ser	Gln	Pro	Ala	Gln	Glu	Leu	Lys	Arg	Ser
		180						185					190		

Ser	Ile	Met	Ala	Phe	Ala	Ile	Gly	Asn	Lys	Gly	Ala	Asp	Gln	Ala	Glu
		195					200					205			

Leu	Glu	Glu	Ile	Ala	Phe	Asp	Ser	Ser	Leu	Val	Phe	Ile	Pro	Ala	Glu
	210					215					220				

829

Phe Arg Ala Ala Pro Leu Gln Gly Met Leu Pro Gly Leu Leu Ala Pro
225 230 235 240

Leu Arg Thr Leu Ser Gly Thr Pro Glu Val His Ser Asn Lys Arg Asp
245 250 255

Ile Ile Phe Leu
260

<210> 882
<211> 149
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

830

<400> 882

Xaa Xaa Glu Ser Glu Xaa Ser Phe Xaa Cys Arg Lys Xaa Ile Ile Xaa
 1 5 10 15
 Phe Leu Xaa Tyr Lys Arg Val Val Phe Leu Lys Gln Leu Ala Ser Gly
 20 25 30
 Leu Leu Leu Val Thr Gly Pro Leu Val Leu Asn Arg Val Pro Leu Arg
 35 40 45
 Arg Thr His Gln Lys Phe Val Ile Ala Thr Ser Thr Lys Ile Asp Ile
 50 55 60
 Ser Asn Val Lys Ile Pro Lys His Leu Thr Asp Ala Tyr Phe Lys Lys
 65 70 75 80
 Lys Lys Leu Arg Lys Pro Arg His Gln Glu Gly Glu Ile Phe Asp Thr
 85 90 95
 Glu Lys Glu Lys Tyr Glu Ile Thr Glu Gln Arg Lys Ile Asp Gln Lys
 100 105 110
 Ala Val Asp Ser Gln Ile Leu Pro Lys Ile Lys Ala Ile Pro Gln Leu
 115 120 125
 Gln Gly Tyr Leu Arg Ser Val Phe Ala Leu Thr Asn Gly Ile Tyr Pro
 130 135 140
 His Lys Leu Val Phe
 145

<210> 883

<211> 256

<212> PRT

<213> Homo sapiens

<400> 883

Trp Lys Ser Val Val Val Leu Ala Val Ser Ala Gly Ala Gly Ser Ala
 1 5 10 15
 His Pro Arg Gln Asn Lys Tyr Ser Val Leu Leu Pro Thr Tyr Asn Glu
 20 25 30
 Arg Glu Asn Leu Pro Leu Ile Val Trp Leu Leu Val Lys Ser Phe Ser
 35 40 45
 Glu Ser Gly Ile Asn Tyr Glu Ile Ile Ile Ile Asp Asp Gly Ser Pro
 50 55 60

831

Asp Gly Thr Arg Asp Val Ala Glu Gln Leu Glu Lys Ile Tyr Gly Ser
 65 70 75 80
 Asp Arg Ile Leu Leu Arg Pro Arg Glu Lys Lys Leu Gly Leu Gly Thr
 85 90 95
 Ala Tyr Ile His Gly Met Lys His Ala Thr Gly Asn Tyr Ile Ile Ile
 100 105 110
 Met Asp Ala Asp Leu Ser His His Pro Lys Phe Ile Pro Glu Phe Ile
 115 120 125
 Arg Lys Gln Lys Glu Gly Asn Phe Asp Ile Val Ser Gly Thr Arg Tyr
 130 135 140
 Lys Gly Asn Gly Gly Val Tyr Gly Trp Asp Leu Lys Arg Lys Ile Ile
 145 150 155 160
 Ser Arg Gly Ala Asn Phe Leu Thr Gln Ile Leu Leu Arg Pro Gly Ala
 165 170 175
 Ser Asp Leu Thr Gly Ser Phe Arg Leu Tyr Arg Lys Glu Val Leu Glu
 180 185 190
 Lys Leu Ile Glu Lys Cys Val Ser Lys Gly Tyr Val Phe Gln Met Glu
 195 200 205
 Met Ile Val Arg Ala Arg Gln Leu Asn Tyr Thr Ile Gly Glu Val Pro
 210 215 220
 Ile Ser Phe Val Asp Arg Val Tyr Gly Glu Ser Lys Leu Gly Gly Asn
 225 230 235 240
 Glu Ile Val Ser Phe Leu Lys Gly Leu Leu Thr Leu Phe Ala Thr Thr
 245 250 255

<210> 884

<211> 449

<212> PRT

<213> Homo sapiens

<400> 884

Gly Gly Ser Trp Cys Arg Ser Ser Pro Gly Arg Asp Gly Ser Pro Gly
 1 5 10 15

Ala Lys Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Pro Gly Ala
 20 25 30

Pro Gly Ala Pro Gly Ala Pro Gly Pro Val Gly Pro Ala Gly Lys Ser
 35 40 45

Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly
 50 55 60

Pro Val Gly Ala Arg Gly Pro Ala Gly Pro Gln Gly Pro Arg Gly Asp
 65 70 75 80

Lys Gly Glu Thr Gly Glu Gln Gly Asp Arg Gly Ile Lys Gly His Arg
 85 90 95

Gly Phe Ser Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly
 100 105 110

Glu Gln Gly Pro Ser Gly Ala Ser Gly Pro Ala Gly Pro Arg Gly Pro
 115 120 125

Pro Gly Ser Ala Gly Ala Pro Gly Lys Asp Gly Leu Asn Gly Leu Pro
 130 135 140

Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly Arg Thr Gly Asp Ala Gly
 145 150 155 160

Pro Val Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
 165 170 175

Pro Ser Ala Gly Phe Asp Phe Ser Phe Leu Pro Gln Pro Pro Gln Glu
 180 185 190

Lys Ala His Asp Gly Gly Arg Tyr Tyr Arg Ala Asp Asp Ala Asn Val
 195 200 205

Val Arg Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser
 210 215 220

Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro
 225 230 235 240

Ala Arg Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser
 245 250 255

Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile
 260 265 270

Lys Val Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr
 275 280 285

833

Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys
 290 295 300

Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln
 305 310 315 320

Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln
 325 330 335

Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr
 340 345 350

Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn
 355 360 365

Leu Lys Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg
 370 375 380

Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys
 385 390 395 400

Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr
 405 410 415

Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val
 420 425 430

Gly Ala Pro Asp Gln Glu Phe Gly Phe Asp Val Gly Pro Val Cys Phe
 435 440 445

Leu

<210> 885

<211> 64

<212> PRT

<213> Homo sapiens

<400> 885

Gly Lys Leu Val Thr Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
 1 5 10 15

Pro Arg Val Arg Trp Gly Phe Thr Lys Phe Asn Ala Asp Glu Phe Glu
 20 25 30

Asp Met Val Ala Glu Lys Arg Leu Ile Pro Asp Gly Cys Gly Val Lys
 35 40 45

Tyr Ile Pro Ser Arg Gly Pro Leu Asp Lys Trp Arg Ala Leu His Ser

834

50

55

60

<210> 886

<211> 132

<212> PRT

<213> Homo sapiens

<400> 886

Thr Thr Leu Arg Ala Leu Ala Leu Asn Leu Trp Pro Pro Lys Ser Arg
 1 5 10 15

Ser Leu Ile Ser Ser Trp Gln Ser Cys Gly Gln Glu Val Leu Lys Gly
 20 25 30

Lys Thr His Ser Asp Asn Cys Ser Pro Ile Tyr Gln Pro Ser Ala Gly
 35 40 45

Val Ser Asp Arg Gly Pro Leu Pro Pro Leu Glu Cys Ala Thr Tyr Glu
 50 55 60

Glu Cys Pro Met Gly Lys Arg Arg Leu Ser Cys Pro Leu Ala Ala Cys
 65 70 75 80

Ala Ser Ile Pro Gly Gln Lys Phe Pro Gln Glu Pro Leu Ala Leu Ala
 85 90 95

Gln Ser His Cys Glu Arg Arg Trp Glu Pro Thr Pro Leu Gly Glu Gly
 100 105 110

Ala Val Leu Leu Gly Thr Ser Gln His Gln Val Arg Ser Leu Lys Leu
 115 120 125

Lys Asn Val Asn
 130

<210> 887

<211> 70

<212> PRT

<213> Homo sapiens

<400> 887

Gly Leu Ser Ser Glu Ala Arg Glu Lys Ser Ser Glu Pro Gln Glu Arg
 1 5 10 15

835

Ser Ser Glu Pro Trp Glu Arg Ser Ser Glu Pro Trp Glu Gly Leu Val
 20 25 30

Thr Phe Glu Asp Val Ala Val Glu Phe Thr Gln Glu Glu Trp Ala Leu
 35 40 45

Leu Asp Pro Ala Gln Arg Thr Leu Tyr Arg Asp Val Met Leu Glu Asn
 50 55 60

Cys Arg Thr Trp Pro His
 65 70

<210> 888

<211> 373

<212> PRT

<213> Homo sapiens

<400> 888

Val Asp Pro Arg Val Arg Phe Arg Glu Glu Phe Leu Phe Ser Ser Leu
 1 5 10 15

Gln Glu Gly Arg Asp Lys Asp Thr Phe Ser Lys Met Ala Met Val Ser
 20 25 30

Glu Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn Glu Glu Gln Glu Tyr
 35 40 45

Val Gln Thr Val Lys Ser Ser Lys Gly Gly Pro Gly Ser Ala Val Ser
 50 55 60

Pro Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val Ala Ala Leu His Lys
 65 70 75 80

Ala Ile Met Val Lys Gly Val Asp Glu Ala Thr Ile Ile Asp Ile Leu
 85 90 95

Thr Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile Lys Ala Ala Tyr Leu
 100 105 110

Gln Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu Lys Lys Ala Leu Thr
 115 120 125

Gly His Leu Glu Glu Val Val Leu Ala Leu Leu Lys Thr Pro Ala Gln
 130 135 140

Phe Asp Ala Asp Glu Leu Arg Ala Ala Met Lys Gly Leu Gly Thr Asp
 145 150 155 160

Glu Asp Thr Leu Ile Glu Ile Leu Ala Ser Arg Thr Asn Lys Glu Ile

836

	165		170		175
Arg Asp Ile Asn Arg Val Tyr Arg Glu Glu Leu Lys Arg Asp Leu Ala	180		185		190
Lys Asp Ile Thr Ser Asp Thr Ser Gly Asp Phe Arg Asn Ala Leu Leu	195		200		205
Ser Leu Ala Lys Gly Asp Arg Ser Glu Asp Phe Gly Val Asn Glu Asp	210		215		220
Leu Ala Asp Ser Asp Ala Arg Ala Leu Tyr Glu Ala Gly Glu Arg Arg	225		230		235 240
Lys Gly Thr Asp Val Asn Val Phe Asn Thr Ile Leu Thr Thr Arg Ser	245		250		255
Tyr Pro Gln Leu Arg Arg Val Phe Gln Lys Tyr Thr Lys Tyr Ser Lys	260		265		270
His Asp Met Asn Lys Val Leu Asp Leu Glu Leu Lys Gly Asp Ile Glu	275		280		285
Lys Cys Leu Thr Ala Ile Val Lys Cys Ala Thr Ser Lys Pro Ala Phe	290		295		300
Phe Ala Glu Lys Leu His Gln Ala Met Lys Gly Val Gly Thr Arg His	305		310		315 320
Lys Ala Leu Ile Arg Ile Met Val Ser Arg Ser Glu Ile Asp Met Asn	325		330		335
Asp Ile Lys Ala Phe Tyr Gln Lys Met Tyr Gly Ile Ser Leu Cys Gln	340		345		350
Ala Ile Leu Asp Glu Thr Lys Gly Asp Tyr Glu Lys Ile Leu Val Ala	355		360		365
Leu Cys Gly Gly Asn	370				

<210> 889

<211> 336

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 889

Gly	Arg	Lys	Lys	His	Leu	Xaa	Ala	Arg	Leu	Val	Thr	Glu	Met	Asp	Ser
1				5					10					15	

Lys	Tyr	Gln	Cys	Val	Lys	Leu	Asn	Asp	Gly	His	Phe	Met	Pro	Val	Leu
		20						25					30		

Gly	Phe	Gly	Thr	Tyr	Ala	Pro	Ala	Glu	Val	Pro	Lys	Ser	Lys	Ala	Leu
	35						40					45			

Glu	Ala	Xaa	Lys	Leu	Ala	Ile	Glu	Ala	Gly	Phe	Xaa	His	Ile	Asp	Ser
	50					55					60				

Ala	His	Xaa	Tyr	Asn	Asn	Glu	Glu	Gln	Val	Gly	Leu	Ala	Ile	Arg	Ser
65					70					75				80	

Lys	Ile	Ala	Asp	Gly	Ser	Val	Lys	Arg	Glu	Asp	Ile	Phe	Tyr	Thr	Ser
			85						90					95	

Lys	Leu	Trp	Xaa	Asn	Ser	His	Arg	Pro	Glu	Leu	Val	Arg	Pro	Ala	Leu
		100						105					110		

Glu	Arg	Ser	Leu	Lys	Asn	Leu	Gln	Leu	Asp	Tyr	Val	Asp	Leu	Tyr	Leu
		115					120						125		

838

Ile His Phe Pro Val Ser Val Lys Pro Gly Glu Glu Val Ile Pro Lys
130 135 140

Asp Glu Asn Gly Lys Ile Leu Phe Asp Thr Val Asp Leu Cys Ala Thr
145 150 155 160

Trp Glu Ala Val Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile
165 170 175

Gly Val Ser Asn Phe Asn Xaa Arg Gln Leu Glu Met Ile Leu Asn Lys
180 185 190

Pro Gly Leu Lys Tyr Lys Pro Val Cys Asn Gln Val Glu Cys His Pro
195 200 205

Tyr Phe Asn Gln Arg Lys Leu Leu Asp Phe Cys Lys Ser Lys Asp Ile
210 215 220

Val Leu Val Ala Tyr Ser Ala Leu Gly Ser His Arg Glu Glu Pro Trp
225 230 235 240

Val Asp Pro Asn Ser Pro Val Leu Leu Glu Asp Pro Val Leu Cys Ala
245 250 255

Leu Ala Lys Lys His Lys Arg Thr Pro Ala Leu Ile Ala Leu Arg Tyr
260 265 270

Gln Leu Gln Arg Gly Val Val Val Leu Ala Lys Ser Tyr Asn Glu Gln
275 280 285

Arg Ile Arg Gln Asn Val Gln Val Phe Glu Phe Gln Leu Thr Ser Glu
290 295 300

Glu Met Lys Ala Ile Asp Gly Leu Asn Arg Asn Val Arg Tyr Leu Thr
305 310 315 320

Leu Asp Ile Phe Ala Gly Pro Pro Asn Tyr Pro Phe Ser Asp Glu Tyr
325 330 335

<210> 890

<211> 195

<212> PRT

<213> Homo sapiens

<400> 890

839

Arg Ser Ser Glu Val Tyr Ala Gln Leu Cys Asn Val Ala Arg Ile Glu
 1 5 10 15
 Ala Glu Arg Glu Ala Gly Val His Phe Arg Pro Gly Tyr Glu Tyr Gly
 20 25 30
 Pro Gly Pro Asp Asp Leu His Tyr Ser Ile Tyr Gly Pro Asp Gly Ala
 35 40 45
 Pro Phe Tyr Asn Tyr Leu Gly Pro Glu Asp Thr Val Pro Glu Pro Ala
 50 55 60
 Phe Pro Asn Thr Ala Gly His Ser Ala Asp Arg Thr Pro Ile Leu Glu
 65 70 75 80
 Ser Pro Leu Gln Pro Ser Glu Leu Gln Pro His Tyr Val Ala Ser His
 85 90 95
 Pro Glu Pro Pro Ala Gly Phe Glu Gly Leu Gln Ala Glu Glu Cys Gly
 100 105 110
 Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val Arg Glu Gly
 115 120 125
 Tyr Thr Cys Asp Cys Phe Glu Gly Phe Gln Leu Asp Ala Ala His Met
 130 135 140
 Ala Cys Val Asp Val Asn Glu Cys Asp Asp Leu Asn Gly Pro Ala Val
 145 150 155 160
 Leu Cys Val His Gly Tyr Cys Glu Asn Thr Glu Gly Ser Tyr Arg Cys
 165 170 175
 His Cys Ser Pro Gly Tyr Val Ala Glu Ala Gly Pro Pro His Cys Thr
 180 185 190
 Ala Lys Glu
 195

<210> 891

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

840

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 891

Ser Ala Gly Leu Thr Gly Arg Ile Ala Phe Ala Ala Ala Arg Pro Gln
 1 5 10 15

Thr Phe Val Pro Gly Pro Ser Ser Pro Pro Pro Pro Pro Pro Arg
 20 25 30

Pro Ala Glu Leu Ala Pro Ser Pro Pro Ala Asp Met Ser Glu Ser Lys
 35 40 45

Ser Gly Pro Glu Tyr Ala Ser Phe Phe Ala Val Met Gly Ala Ser Ala
 50 55 60

Ala Met Val Phe Ser Ala Leu Gly Ala Ala Tyr Gly Thr Ala Lys Ser
 65 70 75 80

Gly Thr Gly Ile Ala Ala Met Ser Val Met Arg Pro Glu Gln Ile Met
 85 90 95

Lys Ser Ile Ile Pro Val Val Met Ala Gly Ile Xaa Xaa Ile Tyr Gly
 100 105 110

Leu Val Val Ala Val Leu Ile Ala Asn Ser Leu Asn Asp Asp Ile Ser
 115 120 125

Leu Tyr Lys Ser Phe Leu Gln Leu Gly Ala Gly Leu Ser Val Gly Leu
 130 135 140

Ser Gly Leu Ala Ala Gly Phe Ala Ile Gly Ile Val Gly Asp Ala Gly
 145 150 155 160

Val Arg Gly Asn Ala Gln Gln Pro Arg Leu Phe Val Gly Met Ile Leu
 165 170 175

Ile Leu Ile Phe Ala Glu Val Leu Gly Leu Tyr Gly Leu Ile Val Ala
 180 185 190

Leu Ile Leu Ser Thr Lys
 195

<210> 892

<211> 95

<212> PRT

<213> Homo sapiens

841

<400> 892

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Asp Ala Trp Ala Pro Ser Glu Ser Arg Glu Ala Leu Leu Thr Pro Pro
 1              5              10              15

Pro His Arg Arg His Thr Ala Ala Ala Ser Val Met Pro Lys His Glu
          20              25              30

Phe Ser Val Asp Met Thr Cys Gly Gly Cys Ala Glu Ala Val Ser Arg
          35              40              45

Val Leu Asn Lys Leu Gly Gly Val Lys Tyr Asp Ile Asp Leu Pro Asn
          50              55              60

Lys Lys Val Cys Ile Glu Ser Glu His Ser Met Asp Thr Leu Leu Ala
          65              70              75              80

Thr Leu Lys Lys Thr Gly Lys Thr Val Ser Tyr Leu Gly Leu Glu
          85              90              95

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<210> 893

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 893

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Gly Glu His Pro Arg Gln Pro Ala Gly Asn Asn Ile Leu Ala Val Leu
 1              5              10              15

Thr Cys Cys Gln Gln Ile His Arg Thr Trp Met Lys Phe Pro Phe Pro
          20              25              30

Leu Val Ser Ser Cys Ser Thr Pro Leu Leu Asp Pro Lys Ser Leu Thr
          35              40              45

Lys Ala Leu Asn Thr Val Lys Met Phe Tyr Ile Pro Phe His Leu Cys
          50              55              60

Cys Phe Phe Asn Cys Ile Leu Pro Asp Val Leu Met Leu Ser Leu Met

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843

<210> 895
 <211> 171
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 895
 Asn Arg Glu Gly Ser Lys Gly Val Glu Thr Arg Arg Val Leu Val Gly
 1 5 10 15
 Glu Gln Gln Gln Cys Xaa Asp Ala Lys Ser Gln Gln Lys Glu Gln Met
 20 25 30
 Leu Leu Leu Glu Xaa Lys Ser Ala Ala Tyr Ser Gln Val Leu Leu Arg
 35 40 45
 Cys Leu Thr Leu Leu Gln Arg Leu Leu Gln Glu His Arg Leu Lys Thr
 50 55 60
 Gln Ser Glu Leu Asp Arg Ile Asn Ala Gln Tyr Leu Glu Val Lys Cys
 65 70 75 80
 Gly Ala Met Ile Leu Lys Leu Arg Met Glu Glu Leu Lys Ile Leu Ser
 85 90 95
 Asp Thr Tyr Thr Val Glu Lys Val Glu Val His Arg Leu Ile Arg Asp
 100 105 110
 Arg Leu Glu Gly Ala Ile His Leu Gln Glu Gln Asp Met Glu Asn Ser
 115 120 125
 Arg Gln Val Leu Asn Ser Tyr Glu Val Leu Gly Glu Glu Phe Asp Arg
 130 135 140
 Leu Val Lys Glu Tyr Thr Val Leu Lys Gln Ala Thr Glu Asn Lys Arg
 145 150 155 160
 Trp Ala Leu Gln Glu Phe Ser Lys Val Tyr Arg
 165 170

844

<210> 896

<211> 99

<212> PRT

<213> Homo sapiens

<400> 896

Arg Glu Val Met Lys Leu Tyr Leu Phe Gln Trp Ala Leu Phe His Phe
 1 5 10 15

Thr Thr Val Pro Leu Phe Gly Ser Trp Ser Tyr Thr Leu Ile Phe Ser
 20 25 30

Ile Leu Leu Leu Asn Tyr Gln His Lys Ala Ile Tyr Leu Lys Asp Ser
 35 40 45

Val Tyr Pro Ala Ile Ala Leu Lys Ser Ser Arg Lys Arg Asn Pro Leu
 50 55 60

Thr Cys Ile Ser Phe Cys Arg Ala Ser Leu Phe Ser Phe Val Leu Cys
 65 70 75 80

Phe Leu Pro Phe Glu Ser Asp Ser Val Leu Val Arg Lys Thr Ser Trp
 85 90 95

Asp His Ser

<210> 897

<211> 289

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (255)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 897

Ala Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Arg Pro
 1 5 10 15

Arg Val Arg Gly Arg Ser Gln Leu Ser Ala His Gly Pro Ala Ser Phe
 20 25 30

Lys Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly
 35 40 45

845

Asp His Ser Thr Pro Pro Ser Ala Tyr Gly Ser Val Lys Ala Tyr Thr
 50 55 60
 Asn Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Glu Thr Ala Ile Lys
 65 70 75 80
 Thr Lys Gly Val Asp Glu Val Thr Ile Val Asn Ile Leu Thr Asn Arg
 85 90 95
 Ser Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr
 100 105 110
 Lys Lys Glu Leu Ala Ser Ala Leu Lys Ser Ala Leu Ser Gly His Leu
 115 120 125
 Glu Thr Val Ile Leu Gly Leu Leu Lys Thr Pro Ala Gln Tyr Asp Ala
 130 135 140
 Ser Glu Leu Lys Ala Ser Met Lys Gly Leu Gly Thr Asp Glu Asp Ser
 145 150 155 160
 Leu Ile Glu Ile Ile Cys Ser Arg Thr Asn Gln Glu Leu Gln Glu Ile
 165 170 175
 Asn Arg Val Tyr Lys Glu Met Tyr Lys Thr Asp Leu Glu Lys Asp Ile
 180 185 190
 Ile Ser Asp Thr Ser Gly Asp Phe Arg Lys Leu Met Val Ala Leu Ala
 195 200 205
 Lys Gly Arg Arg Ala Glu Asp Gly Ser Val Ile Asp Tyr Glu Leu Ile
 210 215 220
 Asp Gln Asp Ala Arg Asp Leu Tyr Asp Ala Gly Val Lys Arg Lys Gly
 225 230 235 240
 Thr Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Xaa Pro
 245 250 255
 Thr Ser Arg Lys Tyr Leu Ile Gly Thr Arg Val Thr Ala Leu Met Thr
 260 265 270
 Cys Trp Lys Ala Ser Gly Lys Arg Leu Lys Glu Thr Trp Lys Met Leu
 275 280 285
 Ser

846

<210> 898
 <211> 232
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (205)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 898

Asn	Pro	Arg	Gly	Lys	Val	Ala	Gly	Phe	Asp	Leu	Asp	Gly	Thr	Leu	Ile
1				5					10					15	
Thr	Thr	Arg	Ser	Gly	Lys	Val	Phe	Pro	Thr	Gly	Pro	Ser	Asp	Trp	Arg
			20					25					30		
Ile	Leu	Tyr	Pro	Glu	Ile	Pro	Arg	Lys	Leu	Arg	Glu	Leu	Glu	Ala	Glu
		35					40					45			
Gly	Tyr	Lys	Leu	Val	Ile	Phe	Thr	Asn	Gln	Met	Ser	Ile	Gly	Arg	Gly
	50					55					60				
Lys	Leu	Pro	Ala	Glu	Glu	Phe	Lys	Ala	Lys	Val	Glu	Ala	Val	Val	Glu
	65				70					75					80
Lys	Leu	Gly	Val	Pro	Phe	Gln	Val	Leu	Val	Ala	Thr	His	Ala	Gly	Leu
				85					90					95	
Tyr	Arg	Lys	Pro	Val	Thr	Gly	Met	Trp	Asp	His	Leu	Gln	Glu	Gln	Ala
			100					105					110		
Asn	Asp	Gly	Thr	Pro	Ile	Ser	Ile	Gly	Asp	Ser	Ile	Phe	Val	Gly	Asp
		115					120					125			
Ala	Ala	Gly	Arg	Pro	Ala	Asn	Trp	Ala	Pro	Gly	Arg	Lys	Lys	Lys	Asp
	130					135					140				
Phe	Ser	Cys	Ala	Asp	Arg	Leu	Phe	Ala	Leu	Asn	Leu	Gly	Leu	Pro	Phe
	145				150					155				160	
Ala	Thr	Pro	Glu	Glu	Phe	Phe	Leu	Lys	Trp	Pro	Ala	Ala	Gly	Phe	Glu
				165					170					175	
Leu	Pro	Ala	Phe	Asp	Pro	Arg	Thr	Val	Ser	Arg	Ser	Gly	Pro	Leu	Cys
			180					185					190		
Leu	Pro	Glu	Ser	Arg	Ala	Leu	Leu	Ser	Ala	Thr	Arg	Xaa	Trp	Leu	Ser
		195					200					205			
Gln	Trp	Asp	Ser	Leu	Gly	Pro	Gly	Ser	Pro	Pro	Phe	Ser	Arg	Ser	Thr

848

Lys Arg Arg Pro Gln Cys Gln Gln Arg Gly
 210 215

<210> 900

<211> 152

<212> PRT

<213> Homo sapiens

<400> 900

Ser Lys Arg Gly His Val Pro Trp Gly Leu Glu Glu Ile Leu Asp Val
 1 5 10 15

Ile Glu Pro Ser Gln Phe Val Lys Ile Gln Glu Pro Leu Phe Lys Gln
 20 25 30

Ile Ala Lys Cys Val Ser Ser Pro His Phe Gln Val Ala Glu Arg Ala
 35 40 45

Leu Tyr Tyr Trp Asn Asn Glu Tyr Ile Met Ser Leu Ile Glu Glu Asn
 50 55 60

Ser Asn Val Ile Leu Pro Ile Met Phe Ser Ser Leu Tyr Arg Ile Ser
 65 70 75 80

Lys Glu His Trp Asn Pro Ala Ile Val Ala Leu Val Tyr Asn Val Leu
 85 90 95

Lys Ala Phe Met Glu Met Asn Ser Thr Met Phe Asp Glu Leu Thr Ala
 100 105 110

Thr Tyr Lys Ser Asp Arg Gln Arg Glu Lys Lys Lys Glu Lys Glu Arg
 115 120 125

Glu Glu Leu Trp Lys Lys Leu Glu Asp Leu Glu Leu Lys Arg Gly Leu
 130 135 140

Arg Arg Asp Gly Ile Ile Pro Thr
 145 150

<210> 901

<211> 261

<212> PRT

<213> Homo sapiens

<400> 901

Gly Leu Arg Glu Ile Ser Gly Arg Leu Ala Glu Met Pro Ala Asp Ser

849

1	5	10	15
Gly Tyr Pro Ala Tyr Leu Gly Ala Arg Leu Ala Ser Phe Tyr Glu Arg	20	25	30
Ala Gly Arg Val Lys Cys Leu Gly Asn Pro Glu Arg Glu Gly Ser Val	35	40	45
Ser Ile Val Gly Ala Val Ser Pro Pro Gly Gly Asp Phe Ser Asp Pro	50	55	60
Val Thr Ser Ala Thr Leu Gly Ile Val Gln Val Phe Trp Gly Leu Asp	65	70	75
Lys Lys Leu Ala Gln Arg Lys His Phe Pro Ser Val Asn Trp Leu Ile	85	90	95
Ser Tyr Ser Lys Tyr Met Arg Ala Leu Asp Glu Tyr Tyr Asp Lys His	100	105	110
Phe Thr Glu Phe Val Pro Leu Arg Thr Lys Ala Lys Glu Ile Leu Gln	115	120	125
Glu Glu Glu Asp Leu Ala Glu Ile Val Gln Leu Val Gly Lys Ala Ser	130	135	140
Leu Ala Glu Thr Asp Lys Ile Thr Leu Glu Val Ala Lys Leu Ile Lys	145	150	155
Asp Asp Phe Leu Gln Gln Asn Gly Tyr Thr Pro Tyr Asp Arg Phe Cys	165	170	175
Pro Phe Tyr Lys Thr Val Gly Met Leu Ser Asn Met Ile Ala Phe Tyr	180	185	190
Asp Met Ala Arg Arg Val Phe Glu Thr Thr Ala Gln Ser Asp Asn Lys	195	200	205
Ile Thr Trp Ser Ile Ile Arg Glu His Met Gly Asp Ile Leu Tyr Lys	210	215	220
Leu Ser Ser Met Lys Phe Lys Asp Pro Leu Lys Asp Gly Glu Ala Lys	225	230	235
Ile Lys Ser Asp Tyr Ala Gln Leu Leu Glu Asp Met Gln Asn Ala Phe	245	250	255
Arg Ser Leu Glu Asp	260		

850

<210> 902
 <211> 169
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 902
 Phe Pro Gly Arg Pro Thr Arg Pro Arg Gly Ile Ser Val Ser Gly Gly
 1 5 10 15
 Glu Ala Val Cys Pro Val Gln Trp Arg Leu Arg Lys Leu Ala Ala Ala
 20 25 30
 Xaa Gly Lys Gly Gln Glu Val Glu Thr Ser Val Thr Tyr Tyr Arg Leu
 35 40 45
 Glu Glu Val Ala Lys Arg Asn Ser Leu Lys Glu Leu Trp Leu Val Ile
 50 55 60
 His Gly Arg Val Tyr Asp Val Thr Arg Phe Leu Asn Glu His Pro Gly
 65 70 75 80
 Gly Glu Glu Val Leu Leu Glu Gln Ala Gly Val Asp Ala Ser Glu Ser
 85 90 95
 Phe Glu Asp Val Gly His Ser Ser Asp Ala Arg Glu Met Leu Lys Gln
 100 105 110
 Tyr Tyr Ile Gly Asp Ile His Pro Ser Asp Leu Lys Pro Glu Ser Gly
 115 120 125
 Ser Lys Asp Pro Ser Lys Asn Asp Thr Cys Lys Ser Cys Trp Ala Tyr
 130 135 140
 Trp Ile Leu Pro Ile Ile Gly Ala Val Leu Leu Gly Phe Leu Tyr Arg
 145 150 155 160
 Tyr Tyr Thr Ser Glu Ser Lys Ser Ser
 165

<210> 903
 <211> 53
 <212> PRT
 <213> Homo sapiens

851

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 903
 Pro Leu Cys Leu Ala Lys Asn Lys Asn Phe Leu Ile Leu Arg Xaa Asn
 1 5 10 15

 Ile Gln Xaa Ile His Ile Lys Ser Leu Glu Asn Ile Ile Pro Phe Asp
 20 25 30

 Ser Leu Ile Thr Leu Leu Glu Tyr Lys Glu Met Ile Leu Asn Ile Tyr
 35 40 45

 Val Val Leu Trp Ser
 50

<210> 904
 <211> 329
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 904
 Arg Arg Xaa Ala Xaa Pro Arg Val Arg Trp Lys Ile Cys Gly Leu Ser
 1 5 10 15

 Pro Thr Thr Thr Leu Ala Ile Tyr Phe Glu Val Val Asn Gln His Asn

852

20	25	30
Ala Pro Ile Xaa Gln Gly Gly Arg Gly Ala Ile Gln Phe Val Thr Gln		
35	40	45
Tyr Gln His Ser Ser Gly Gln Arg Arg Ile Arg Val Thr Thr Ile Ala		
50	55	60
Arg Asn Trp Ala Asp Ala Gln Thr Gln Ile Gln Asn Ile Ala Ala Ser		
65	70	75
Phe Asp Gln Glu Ala Ala Ala Ile Leu Met Ala Arg Leu Ala Ile Tyr		
85	90	95
Arg Ala Glu Thr Glu Glu Gly Pro Asp Val Leu Arg Trp Leu Asp Arg		
100	105	110
Gln Leu Ile Arg Leu Cys Gln Lys Phe Gly Glu Tyr His Lys Asp Asp		
115	120	125
Pro Ser Ser Phe Arg Phe Ser Glu Thr Phe Ser Leu Tyr Pro Gln Phe		
130	135	140
Met Phe His Leu Arg Arg Ser Ser Phe Leu Gln Val Phe Asn Asn Ser		
145	150	155
Pro Asp Glu Ser Ser Tyr Tyr Arg His His Phe Met Arg Gln Asp Leu		
165	170	175
Thr Gln Ser Leu Ile Met Ile Gln Pro Ile Leu Tyr Ala Tyr Ser Phe		
180	185	190
Ser Gly Pro Pro Glu Pro Val Leu Leu Asp Ser Ser Ser Ile Leu Ala		
195	200	205
Asp Arg Ile Leu Leu Met Asp Thr Phe Phe Gln Ile Leu Ile Tyr His		
210	215	220
Gly Glu Thr Ile Ala Gln Trp Arg Lys Ser Gly Tyr Gln Asp Met Pro		
225	230	235
Glu Tyr Glu Asn Phe Arg His Leu Leu Gln Ala Pro Val Asp Asp Ala		
245	250	255
Gln Glu Ile Leu His Ser Arg Phe Pro Met Pro Arg Tyr Ile Asp Thr		
260	265	270
Glu His Gly Gly Ser Gln Ala Arg Phe Leu Leu Ser Lys Val Asn Pro		
275	280	285
Ser Gln Thr His Asn Asn Met Tyr Ala Trp Gly Gln Glu Ser Gly Ala		

854

Thr Arg Asn His Asn Gly Ser Met Leu Pro Phe Lys Arg Gly Ala Phe
 165 170 175
 His Leu Ala Val Gln Ala Gln Val Pro Ile Val Pro Ile Val Met Ser
 180 185 190
 Ser Tyr Gln Asp Phe Tyr Cys Lys Lys Glu Arg Arg Phe Thr Ser Gly
 195 200 205
 Gln Cys Gln Val Arg Val Leu Pro Pro Val Pro Thr Glu Gly Leu Thr
 210 215 220
 Pro Asp Asp Val Pro Ala Leu Ala Asp Arg Val Arg His Ser Met Leu
 225 230 235 240
 Thr Val Phe Arg Glu Ile Ser Thr Asp Gly Arg Gly Gly Gly Asp Tyr
 245 250 255
 Leu Lys Lys Pro Gly Gly Gly Gly
 260

<210> 906

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 906

Xaa Xaa Pro Xaa Pro Glu Phe Pro Gly Arg Thr His Ala Ser Gly Leu
 1 5 10 15

Leu Arg Ser Arg Leu Ala Leu Arg Trp Leu Ser His Val Arg Arg Pro
 20 25 30

Ser Arg Arg Val Pro Arg Met Pro Arg Gly Ser Arg Ser Arg Thr Ser

855

35	40	45
Arg Met Ala Pro Pro Ala Ser Arg Ala Pro Gln Met Arg Ala Ala Pro		
50	55	60
Arg Pro Ala Pro Val Ala Gln Pro Pro Ala Ala Ala Pro Pro Ser Ala		
65	70	75
Val Gly Ser Ser Ala Ala Ala Pro Arg Gln Pro Gly Leu Met Ala Gln		
	85	90
Met Ala Thr Thr Ala Ala Gly Val Ala Val Gly Ser Ala Val Gly His		
	100	105
Thr Leu Gly His Ala Ile Thr Gly Gly Phe Ser Gly Gly Ser Asn Ala		
	115	120
Glu Pro Ala Arg Pro Asp Ile Thr Tyr Gln Glu Pro Gln Gly Thr Gln		
	130	135
Pro Ala Gln Gln Gln Gln Pro Cys Leu Tyr Glu Ile Lys Gln Phe Leu		
	145	150
Glu Cys Ala Gln Asn Gln Gly Asp Ile Lys Leu Cys Glu Gly Phe Asn		
	165	170
Glu Val Leu Lys Gln Cys Arg Leu Ala Asn Gly Leu Ala		
	180	185

<210> 907

<211> 638

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (427)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 907

Tyr	Val	Gln	Gly	Tyr	Ser	Leu	Ser	Gln	Ala	Asp	Val	Asp	Ala	Phe	Arg
1				5					10					15	

Gln	Leu	Ser	Ala	Pro	Pro	Ala	Asp	Pro	Gln	Leu	Phe	His	Val	Ala	Arg
			20					25					30		

Trp	Phe	Arg	His	Ile	Glu	Ala	Leu	Leu	Gly	Xaa	Pro	Cys	Gly	Lys	Gly
		35					40					45			

Gln	Pro	Cys	Xaa	Leu	Pro	Ser	Xaa	Gln	Arg	Pro	Ala	Cys	Ala	Ala	Pro
	50					55					60				

Val	Val	Pro	Ser	Cys	Trp	Asp	Pro	Xaa	Cys	Arg	Leu	His	Leu	Tyr	Asn
65					70				75						80

Ser	Leu	Thr	Arg	Asn	Lys	Glu	Val	Phe	Ile	Pro	Gln	Asp	Gly	Lys	Lys
				85					90					95	

Val	Thr	Trp	Tyr	Cys	Cys	Gly	Pro	Thr	Val	Tyr	Asp	Ala	Ser	His	Met
			100					105					110		

Gly	His	Ala	Arg	Ser	Tyr	Ile	Ser	Phe	Asp	Ile	Leu	Arg	Arg	Val	Leu
	115						120					125			

Lys	Asp	Tyr	Phe	Lys	Phe	Asp	Val	Phe	Tyr	Cys	Met	Asn	Ile	Thr	Asp
	130					135					140				

Ile	Asp	Asp	Lys	Ile	Ile	Lys	Arg	Ala	Arg	Gln	Asn	His	Leu	Phe	Glu
145					150					155				160	

Gln	Tyr	Arg	Glu	Lys	Arg	Pro	Glu	Ala	Ala	Gln	Leu	Leu	Glu	Asp	Val
				165				170						175	

Gln	Ala	Ala	Leu	Lys	Pro	Phe	Ser	Val	Lys	Leu	Asn	Glu	Thr	Thr	Asp
			180					185					190		

Pro	Asp	Lys	Lys	Gln	Met	Leu	Glu	Arg	Ile	Gln	His	Ala	Val	Gln	Leu
		195				200						205			

Ala	Thr	Glu	Pro	Leu	Glu	Lys	Ala	Val	Gln	Ser	Arg	Leu	Thr	Gly	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

857

210		215		220
Glu Val Asn Ser Cys Val Glu Val Leu Leu Glu Glu Ala Lys Asp Leu				
225		230		235 240
Leu Ser Asp Trp Leu Asp Ser Thr Leu Gly Cys Asp Val Thr Asp Asn				
	245		250	255
Ser Ile Phe Ser Lys Leu Pro Lys Phe Trp Glu Gly Asp Phe His Arg				
	260		265	270
Asp Met Glu Ala Leu Asn Val Leu Pro Pro Asp Val Leu Thr Arg Val				
	275		280	285
Ser Glu Tyr Val Pro Glu Ile Val Asn Phe Val Gln Lys Ile Val Asp				
	290		295	300
Asn Gly Tyr Gly Tyr Val Ser Asn Gly Ser Val Tyr Phe Asp Thr Ala				
305		310		315 320
Lys Phe Ala Ser Ser Glu Lys His Ser Tyr Gly Lys Leu Val Pro Glu				
	325		330	335
Ala Val Gly Asp Gln Lys Ala Leu Gln Glu Gly Glu Gly Asp Leu Ser				
	340		345	350
Ile Ser Ala Asp Arg Leu Ser Glu Lys Arg Ser Pro Asn Asp Phe Ala				
	355		360	365
Leu Trp Lys Ala Ser Lys Pro Gly Glu Pro Ser Trp Pro Cys Pro Trp				
	370		375	380
Gly Lys Gly Arg Pro Gly Trp His Ile Glu Cys Ser Ala Met Ala Gly				
385		390		395 400
Thr Leu Leu Gly Ala Ser Met Asp Ile His Gly Gly Gly Phe Asp Leu				
	405		410	415
Arg Phe Pro His His Asp Asn Glu Leu Ala Xaa Ser Glu Ala Tyr Phe				
	420		425	430
Glu Asn Asp Cys Trp Val Arg Tyr Phe Leu His Thr Gly His Leu Thr				
	435		440	445
Ile Ala Gly Cys Lys Met Ser Lys Ser Leu Lys Asn Phe Ile Thr Ile				
	450		455	460
Lys Asp Ala Leu Lys Lys His Ser Ala Arg Gln Leu Arg Leu Ala Phe				
465		470		475 480
Leu Met His Ser Trp Lys Asp Thr Leu Asp Tyr Ser Ser Asn Thr Met				

858

				485						490						495
Glu	Ser	Ala	Leu	Gln	Tyr	Glu	Lys	Phe	Leu	Asn	Glu	Phe	Phe	Leu	Asn	
			500					505					510			
Val	Lys	Asp	Ile	Leu	Arg	Ala	Pro	Val	Asp	Ile	Thr	Gly	Gln	Phe	Glu	
		515					520					525				
Lys	Trp	Gly	Glu	Glu	Glu	Ala	Glu	Leu	Asn	Lys	Asn	Phe	Tyr	Asp	Lys	
		530				535					540					
Lys	Thr	Ala	Ile	His	Lys	Ala	Leu	Cys	Asp	Asn	Val	Asp	Thr	Arg	Thr	
545					550					555					560	
Val	Met	Glu	Glu	Met	Arg	Ala	Leu	Val	Ser	Gln	Cys	Asn	Leu	Tyr	Met	
				565					570					575		
Ala	Ala	Arg	Lys	Ala	Val	Arg	Lys	Arg	Pro	Asn	Gln	Ala	Leu	Leu	Glu	
			580					585					590			
Asn	Ile	Ala	Leu	Tyr	Leu	Thr	His	Met	Leu	Lys	Ile	Phe	Gly	Ala	Val	
		595					600					605				
Glu	Glu	Asp	Ser	Ser	Leu	Gly	Phe	Pro	Val	Gly	Gly	Pro	Gly	Thr	Ser	
		610				615					620					
Leu	Ser	Leu	Glu	Ala	Thr	Val	Met	Pro	Tyr	Leu	Gln	Val	Leu			
625					630					635						

<210> 908

<211> 248

<212> PRT

<213> Homo sapiens

<400> 908

Ser	His	Pro	Leu	Arg	Ser	Arg	Leu	Pro	Ser	Ala	Thr	Gly	Val	Gly	His	
1					5				10					15		
Ala	Leu	Ala	Arg	Ser	Phe	Cys	Arg	His	Leu	Gly	Ser	Ala	Phe	Pro	Ala	
			20					25					30			
Gln	Asn	Ala	Arg	Arg	Ser	Thr	Glu	Thr	Val	Pro	Ala	Thr	Glu	Gln	Glu	
		35					40					45				
Leu	Pro	Gln	Pro	Gln	Ala	Glu	Thr	Gly	Ser	Gly	Thr	Glu	Ser	Asp	Ser	
	50					55					60					
Asp	Glu	Ser	Val	Pro	Glu	Leu	Glu	Gln	Asp	Ser	Thr	Gln	Ala	Thr		
65					70				75					80		

859

Thr Gln Gln Ala Gln Leu Ala Ala Ala Ala Glu Ile Asp Glu Glu Pro
 85 90 95
 Val Ser Lys Ala Lys Gln Ser Arg Ser Glu Lys Lys Ala Arg Lys Ala
 100 105 110
 Met Ser Lys Leu Gly Leu Arg Gln Val Thr Gly Val Thr Arg Val Thr
 115 120 125
 Ile Arg Lys Ser Lys Asn Ile Leu Phe Val Ile Thr Lys Pro Asp Val
 130 135 140
 Tyr Lys Ser Pro Ala Ser Asp Thr Tyr Ile Val Phe Gly Glu Ala Lys
 145 150 155 160
 Ile Glu Asp Leu Ser Gln Gln Ala Gln Leu Ala Ala Ala Glu Lys Phe
 165 170 175
 Lys Val Gln Gly Glu Ala Val Ser Asn Ile Gln Glu Asn Thr Gln Thr
 180 185 190
 Pro Thr Val Gln Glu Glu Ser Glu Glu Glu Glu Val Asp Glu Thr Gly
 195 200 205
 Val Glu Val Lys Asp Ile Glu Leu Val Met Ser Gln Ala Asn Val Ser
 210 215 220
 Arg Ala Lys Ala Val Arg Ala Leu Lys Asn Asn Ser Asn Asp Ile Val
 225 230 235 240
 Asn Ala Ile Met Glu Leu Thr Met
 245

<210> 909

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

860

<400> 909

Gln Gly Cys Cys Tyr Gly Ala Gly Arg Arg Val Ala Arg Leu Leu Ala
 1 5 10 15

Pro Leu Met Trp Arg Arg Ala Val Ser Ser Val Ala Gly Ser Ala Val
 20 25 30

Gly Ala Glu Pro Gly Leu Arg Leu Leu Ala Val Gln Arg Xaa Pro Val
 35 40 45

Glu Gln Arg Ser Ala Gly Leu Ala Arg Pro Gln Thr Leu Ser Ala Ala
 50 55 60

Cys Thr Ala Lys Pro Gly Leu Glu Glu Arg Ala Glu Gly Thr Val Asn
 65 70 75 80

Glu Gly Arg Pro Glu Ser Asp Ala Ala Asp His Thr Gly Pro Lys Phe
 85 90 95

Asp Ile Asp Met Met Val Ser Leu Leu Arg Gln Glu Asn Ala Arg Asp
 100 105 110

Ile Cys Val Ile Gln Val Pro Pro Glu Met Arg Tyr Thr Asp Tyr Phe
 115 120 125

Val Ile Val Ser Gly Thr Ser Thr Arg His Leu His Ala Met Ala Phe
 130 135 140

Tyr Val Val Lys Met Tyr Lys His Leu Lys Cys Lys Arg Xaa Pro Ser
 145 150 155 160

Cys

<210> 910

<211> 487

<212> PRT

<213> Homo sapiens

<400> 910

Lys Ala Ala Ser Gly Pro Ala Thr Ser Ile Thr Gly Val Thr Met Gly
 1 5 10 15

Ala Val Leu Gly Val Phe Ser Leu Ala Ser Trp Val Pro Cys Leu Cys
 20 25 30

Ser Gly Ala Ser Cys Leu Leu Cys Ser Cys Cys Pro Asn Ser Lys Asn
 35 40 45

Ser Thr Val Thr Arg Leu Ile Tyr Ala Phe Ile Leu Leu Leu Ser Thr
 50 55 60
 Val Val Ser Tyr Ile Met Gln Arg Lys Glu Met Glu Thr Tyr Leu Lys
 65 70 75 80
 Lys Ile Pro Gly Phe Cys Glu Gly Gly Phe Lys Ile His Glu Ala Asp
 85 90 95
 Ile Asn Ala Asp Lys Asp Cys Asp Val Leu Val Gly Tyr Lys Ala Val
 100 105 110
 Tyr Arg Ile Ser Phe Ala Met Ala Ile Phe Phe Phe Val Phe Ser Leu
 115 120 125
 Leu Met Phe Lys Val Lys Thr Ser Lys Asp Leu Arg Ala Ala Val His
 130 135 140
 Asn Gly Phe Trp Phe Phe Lys Ile Ala Ala Leu Ile Gly Ile Met Val
 145 150 155 160
 Gly Ser Phe Tyr Ile Pro Gly Gly Tyr Phe Ser Ser Val Trp Phe Val
 165 170 175
 Val Gly Met Ile Gly Ala Ala Leu Phe Ile Leu Ile Gln Leu Val Leu
 180 185 190
 Leu Val Asp Phe Ala His Ser Trp Asn Glu Ser Trp Val Asn Arg Met
 195 200 205
 Glu Glu Gly Asn Pro Arg Leu Trp Tyr Ala Ala Leu Leu Ser Phe Thr
 210 215 220
 Ser Ala Phe Tyr Ile Leu Ser Ile Ile Cys Val Gly Leu Leu Tyr Thr
 225 230 235 240
 Tyr Tyr Thr Lys Pro Asp Gly Cys Thr Glu Asn Lys Phe Phe Ile Ser
 245 250 255
 Ile Asn Leu Ile Leu Cys Val Val Ala Ser Ile Ile Ser Ile His Pro
 260 265 270
 Lys Ile Gln Glu His Gln Pro Arg Ser Gly Leu Leu Gln Ser Ser Leu
 275 280 285
 Ile Thr Leu Tyr Thr Met Tyr Leu Thr Trp Ser Ala Met Ser Asn Glu
 290 295 300
 Pro Asp Arg Ser Cys Asn Pro Asn Leu Met Ser Phe Ile Thr Arg Ile
 305 310 315 320

Leu Val Arg Cys Arg His Phe Ile Cys Pro His Ser Leu Arg Leu Ser
20 25 30

863

Gln Ser Phe Gln Gln Arg Tyr Val Gly Pro Glu His Pro Glu Phe Thr
 35 40 45

Thr Ser Val Val Arg Arg Ala Thr Met Arg Arg Ala Leu Gly Arg Ile
 50 55 60

Cys His Phe Gln Xaa Val Arg Gly Thr Ala Ser Leu Gly Glu Gly Ala
 65 70 75 80

Leu Gly Cys Asp Ser Arg Thr Cys Lys Ala Ala Ser Gly Leu Trp Arg
 85 90 95

Gly Arg

<210> 912
 <211> 206
 <212> PRT
 <213> Homo sapiens

<400> 912
 Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe
 1 5 10 15

Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Ser Leu Leu Ile
 20 25 30

Ser Gly Glu Cys Leu Leu Thr Ala Thr Asp Thr Val Asp Val Ala Met
 35 40 45

Pro Leu Asn Phe Thr Gly Gly Gln Leu His Ser Arg Met Phe Gln Asn
 50 55 60

Phe Pro Thr Glu Leu Leu Leu Ser Leu Ala Val Glu Pro Leu Thr Ala
 65 70 75 80

Asn Phe His Lys Trp Ser Leu Ser Val Lys Asn Phe Thr Met Asn Glu
 85 90 95

Lys Leu Lys Lys Phe Phe Asn Val Leu Thr Thr Asn Thr Asp Gly Lys
 100 105 110

Ile Glu Phe Ile Ser Thr Met Glu Gly Tyr Lys Tyr Pro Val Tyr Gly
 115 120 125

Val Gln Trp His Pro Glu Lys Ala Pro Tyr Glu Trp Lys Asn Leu Asp
 130 135 140

864

Gly Ile Ser His Ala Pro Asn Ala Val Lys Thr Ala Phe Tyr Leu Ala
 145 150 155 160

Glu Phe Phe Val Asn Glu Ala Arg Lys Asn Asn His His Phe Lys Ser
 165 170 175

Glu Ser Glu Glu Glu Lys Ala Leu Ile Tyr Gln Phe Ser Pro Ile Tyr
 180 185 190

Thr Gly Asn Ile Ser Ser Phe Gln Gln Cys Tyr Ile Phe Asp
 195 200 205

<210> 913

<211> 91

<212> PRT

<213> Homo sapiens

<400> 913

Phe Ser Gly Pro Cys Pro Val Asn Thr Leu Gly Trp Glu Val Ser Ser
 1 5 10 15

Phe Ser Pro Leu Leu Ser Ser Cys Leu Asn Met Val Arg Thr Lys Ala
 20 25 30

Asp Ser Val Pro Gly Thr Tyr Arg Lys Val Val Ala Ala Arg Ala Pro
 35 40 45

Arg Lys Val Leu Gly Ser Ser Thr Ser Ala Thr Asn Ser Thr Ser Val
 50 55 60

Ser Ser Arg Lys Glu His Val Leu Cys Asn Leu Ile Thr Gln Met Met
 65 70 75 80

Lys Lys Asn Arg Thr Phe Ser Phe Ile Phe Glu
 85 90

<210> 914

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

865

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 914

Arg	Glu	Leu	Ser	Thr	Arg	Gln	Arg	Ser	Gln	Ala	Lys	Pro	Pro	Ala	Ser
1				5					10					15	

Met	Ala	Ser	Glu	Phe	Lys	Lys	Lys	Leu	Phe	Trp	Arg	Ala	Val	Val	Ala
			20					25					30		

Glu	Phe	Leu	Ala	Thr	Thr	Leu	Phe	Val	Phe	Ile	Ser	Ile	Gly	Ser	Ala
			35				40						45		

Leu	Gly	Phe	Lys	Tyr	Pro	Val	Gly	Asn	Asn	Gln	Thr	Ala	Val	Gln	Asp
	50					55					60				

Asn	Val	Lys	Val	Ser	Leu	Ala	Phe	Gly	Leu	Ser	Ile	Ala	Thr	Leu	Ala
65					70					75					80

Gln	Ser	Val	Gly	His	Ile	Ser	Gly	Ala	His	Leu	Asn	Pro	Ala	Val	Thr
				85					90					95	

Leu	Gly	Leu	Leu	Leu	Ser	Cys	Gln	Ile	Ser	Ile	Phe	Arg	Ala	Leu	Met
		100						105					110		

Tyr	Ile	Ile	Ala	Gln	Cys	Val	Gly	Ala	Ile	Val	Ala	Thr	Ala	Ile	Leu
		115					120					125			

Ser	Gly	Ile	Xaa	Ser	Ser	Leu	Thr	Gly	Asn	Ser	Leu	Gly	Arg	Asn	Asp
	130					135					140				

Leu	Ala	Xaa	Gly	Val	Asn	Phe	Gly	Pro	Xaa	Pro	Gly	His	Arg	Asp	His
145					150					155				160	

Arg	Asp	Pro	Pro	Ala	Gly	Ala	Met	Arg	Ala	Gly	Tyr	Tyr	Arg	Pro	Glu
				165					170					175	

Ala Pro

<210> 915

<211> 377

<212> PRT

866

<213> Homo sapiens

<220>

<221> SITE

<222> (355)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 915

Val	Cys	Ala	His	Gly	Gln	Gly	Leu	Leu	Arg	Tyr	Phe	Tyr	Ser	Arg	Arg
1				5					10					15	
Ile	Asp	Ile	Thr	Leu	Ser	Ser	Val	Lys	Cys	Phe	His	Lys	Leu	Ala	Ser
			20					25					30		
Ala	Tyr	Gly	Ala	Arg	Gln	Leu	Gln	Gly	Tyr	Cys	Ala	Ser	Leu	Phe	Ala
		35					40					45			
Ile	Leu	Leu	Pro	Gln	Asp	Pro	Ser	Phe	Gln	Met	Pro	Leu	Asp	Leu	Tyr
	50				55					60					
Ala	Tyr	Ala	Val	Ala	Thr	Gly	Asp	Ala	Leu	Leu	Glu	Lys	Leu	Cys	Leu
65					70				75						80
Gln	Phe	Leu	Ala	Trp	Asn	Phe	Glu	Ala	Leu	Thr	Gln	Ala	Glu	Ala	Trp
			85						90					95	
Pro	Ser	Val	Pro	Thr	Asp	Leu	Leu	Gln	Leu	Leu	Leu	Pro	Arg	Ser	Asp
		100						105					110		
Leu	Ala	Val	Pro	Ser	Glu	Leu	Ala	Leu	Leu	Lys	Ala	Val	Asp	Thr	Trp
	115						120					125			
Ser	Trp	Gly	Glu	Arg	Ala	Ser	His	Glu	Glu	Val	Glu	Gly	Leu	Val	Glu
	130					135					140				
Lys	Ile	Arg	Phe	Pro	Met	Met	Leu	Pro	Glu	Glu	Leu	Phe	Glu	Leu	Gln
145					150				155						160
Phe	Asn	Leu	Ser	Leu	Tyr	Trp	Ser	His	Glu	Ala	Leu	Phe	Gln	Lys	Lys
			165					170					175		
Thr	Leu	Gln	Ala	Leu	Glu	Phe	His	Thr	Val	Pro	Phe	Gln	Leu	Leu	Ala
		180					185						190		
Arg	Tyr	Lys	Gly	Leu	Asn	Leu	Thr	Glu	Asp	Thr	Tyr	Lys	Pro	Arg	Ile
	195					200					205				
Tyr	Thr	Ser	Pro	Thr	Trp	Ser	Ala	Phe	Val	Thr	Asp	Ser	Ser	Trp	Ser
	210				215					220					
Ala	Arg	Lys	Ser	Gln	Leu	Val	Tyr	Gln	Ser	Arg	Arg	Gly	Pro	Leu	Val

867

225 230 235 240
 Lys Tyr Ser Ser Asp Tyr Phe Gln Ala Pro Ser Asp Tyr Arg Tyr Tyr
 245 250 255
 Pro Tyr Gln Ser Phe Gln Thr Pro Gln His Pro Ser Phe Leu Phe Gln
 260 265 270
 Asp Lys Arg Val Ser Trp Ser Leu Val Tyr Leu Pro Thr Ile Gln Ser
 275 280 285
 Cys Trp Asn Tyr Gly Phe Ser Cys Ser Ser Asp Glu Leu Pro Val Leu
 290 295 300
 Gly Leu Thr Lys Ser Gly Gly Ser Asp Arg Thr Ile Ala Tyr Glu Asn
 305 310 315 320
 Lys Ala Leu Met Leu Cys Glu Gly Leu Phe Val Ala Asp Val Thr Asp
 325 330 335
 Phe Glu Gly Trp Lys Ala Ala Ile Pro Ser Ala Leu Asp Thr Asn Ser
 340 345 350
 Ser Lys Xaa Thr Ser Ser Phe Pro Cys Pro Ala Gly Thr Ser Thr Ala
 355 360 365
 Ser Ala Arg Ser Ser Ala Pro Ser Thr
 370 375

<210> 916

<211> 100

<212> PRT

<213> Homo sapiens

<400> 916

Arg Val Gln Arg Asp Thr Cys Leu Pro Pro Met Ser Leu Ser Phe His
 1 5 10 15
 Leu Pro Ser Arg Arg Met Lys Asn Pro Ser Ile Val Gly Val Leu Cys
 20 25 30
 Thr Asp Ser Gln Gly Leu Asn Leu Gly Cys Arg Gly Thr Leu Ser Asp
 35 40 45
 Glu His Ala Gly Val Ile Ser Val Leu Ala Gln Gln Ala Ala Lys Leu
 50 55 60
 Thr Ser Asp Pro Thr Asp Ile Pro Val Val Cys Leu Glu Ser Asp Asn
 65 70 75 80

Gly Asn Ile Met Ile Gln Lys His Asp Gly Ile Thr Val Ala Val His
85 90 95

Lys Met Ala Ser
100

```
<210> 917
<211> 245
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (240)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (242)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 917
Leu Pro Pro Arg Ser Val Gly Gly Leu Gln Lys Met Arg Arg Lys Leu
1 5 10 15
Gly Leu Val Gln Val Glu Leu Glu Asp Gly Ala Leu Val Ser Lys
20 25 30

869

Leu Leu Glu Thr Met His Leu Thr Gly Ala Asp Xaa Thr Asn Thr Phe
 35 40 45
 Tyr Leu Leu Ser Ser Phe Pro Val Glu Leu Glu Ser Pro Gly Leu Xaa
 50 55 60
 Glu Phe Leu Ala Arg Leu Met Glu Gln Cys Ala Ser Leu Glu Glu Leu
 65 70 75 80
 Arg Leu Ala Phe Arg Pro Xaa Met Asp Pro Arg Gln Leu Ser Met Met
 85 90 95
 Leu Met Leu Ala Gln Ser Asn Pro Gln Leu Phe Ala Leu Met Gly Thr
 100 105 110
 Arg Ala Gly Ile Ala Arg Glu Leu Glu Arg Val Glu Gln Gln Ser Arg
 115 120 125
 Leu Glu Gln Leu Ser Ala Ala Glu Leu Gln Ser Arg Asn Gln Gly His
 130 135 140
 Trp Ala Asp Trp Leu Gln Ala Tyr Arg Ala Arg Leu Asp Lys Asp Leu
 145 150 155 160
 Glu Gly Ala Gly Asp Ala Ala Ala Trp Gln Ala Xaa Ala Arg Ala Arg
 165 170 175
 Asp Ala Arg Gln Gln Pro Glu Val Arg Ala Glu Glu Leu His Ser Arg
 180 185 190
 Arg Met Pro Phe Glu Val Ala Glu Arg Gly Asp Phe Ser Glu Val Arg
 195 200 205
 Arg Val Leu Lys Leu Phe Glu Thr Leu Tyr His Cys Glu Ala Gly Ala
 210 215 220
 Ala Thr Arg Arg Pro Arg Pro Arg Glu Ala Asp Gly Gly Gly Arg Xaa
 225 230 235 240
 Gly Xaa Phe Leu Thr
 245

<210> 918

<211> 44

<212> PRT

<213> Homo sapiens

<400> 918

Asn Ser Ala Arg Arg Ile Ser Leu Lys Glu Gly Glu Gly Lys Thr Asp

870

1 5 10 15
 Phe Leu Cys Gly Thr Lys Thr Lys Pro Ser Val Ser Leu Cys Glu Gln
 20 25 30
 Arg Cys Lys Lys Glu Glu Thr Gln Phe Thr His Gly
 35 40

 <210> 919
 <211> 160
 <212> PRT
 <213> Homo sapiens

 <400> 919
 Phe Gly Thr Arg Val Thr Ser Gly Gly Ser Arg Asp Ala Val Pro Gly
 1 5 10 15
 Ala Glu Pro Pro Lys Met Ala Val Cys Ile Ala Val Ile Ala Lys Glu
 20 25 30
 Asn Tyr Pro Leu Tyr Ile Arg Ser Thr Pro Thr Glu Asn Glu Leu Lys
 35 40 45
 Phe His Tyr Met Val His Thr Ser Leu Asp Val Val Asp Glu Lys Ile
 50 55 60
 Ser Ala Met Gly Lys Ala Leu Val Asp Gln Arg Glu Leu Tyr Leu Gly
 65 70 75 80
 Leu Leu Tyr Pro Thr Glu Asp Tyr Lys Val Tyr Gly Tyr Val Thr Asn
 85 90 95
 Ser Lys Val Lys Phe Val Met Val Val Asp Ser Ser Asn Thr Ala Leu
 100 105 110
 Arg Asp Asn Glu Ile Arg Ser Met Phe Arg Lys Leu His Asn Ser Tyr
 115 120 125
 Thr Asp Val Met Cys Asn Pro Phe Tyr Asn Pro Gly Asp Arg Ile Gln
 130 135 140
 Ser Arg Ala Phe Asp Asn Met Val Thr Ser Met Met Ile Gln Val Cys
 145 150 155 160

871

<210> 920

<211> 40

<212> PRT

<213> Homo sapiens

<400> 920

```

Leu Ala Phe Phe Leu Thr Ser Glu Gly Glu Lys Lys Val Ala Thr Tyr
 1             5             10             15

Met Phe Glu Lys Pro Leu Lys Ser Thr Gln Ser Lys Asp Phe Met Leu
          20             25             30

Gln Phe Gly His Met Leu Arg Val
      35             40

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<210> 921

<211> 372

<212> PRT

<213> Homo sapiens

<400> 921

```

Leu Leu Gly Pro Ala Gly Gln Arg Ser His Ala Ala Pro Met Arg Pro
 1             5             10             15

Leu Pro Pro Val Gly Asp Val Arg Leu Glu Leu Ser Pro Pro Pro Pro
          20             25             30

Leu Leu Pro Val Pro Val Val Ser Gly Ser Pro Val Gly Ser Ser Gly
      35             40             45

Arg Leu Met Ala Ser Ser Ser Ser Leu Val Pro Asp Arg Leu Arg Leu
      50             55             60

Pro Leu Cys Phe Leu Gly Val Phe Val Cys Tyr Phe Tyr Tyr Gly Ile
      65             70             75             80

Leu Gln Glu Lys Ile Thr Arg Gly Lys Tyr Gly Glu Gly Ala Lys Gln
          85             90             95

Glu Thr Phe Thr Phe Ala Leu Thr Leu Val Phe Ile Gln Cys Val Ile
          100             105             110

Asn Ala Val Phe Ala Lys Ile Leu Ile Gln Phe Phe Asp Thr Ala Arg
          115             120             125

Val Asp Arg Thr Arg Ser Trp Leu Tyr Ala Ala Cys Ser Ile Ser Tyr
          130             135             140

Leu Gly Ala Met Val Ser Ser Asn Ser Ala Leu Gln Phe Val Asn Tyr

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872

145		150		155		160
Pro Thr Gln Val Leu Gly Lys Ser Cys Lys Pro Ile Pro Val Met Leu						
	165		170		175	
Leu Gly Val Thr Leu Leu Lys Lys Lys Tyr Pro Leu Ala Lys Tyr Leu						
	180		185		190	
Cys Val Leu Leu Ile Val Ala Gly Val Ala Leu Phe Met Tyr Lys Pro						
	195		200		205	
Lys Lys Val Val Gly Ile Glu Glu His Thr Val Gly Tyr Gly Glu Leu						
	210		215		220	
Leu Leu Leu Leu Ser Leu Thr Leu Asp Gly Leu Thr Gly Val Ser Gln						
	225		230		235	
Asp His Met Arg Ala His Tyr Gln Thr Gly Ser Asn His Met Met Leu						
	245		250		255	
Asn Ile Asn Leu Trp Ser Thr Leu Leu Leu Gly Met Gly Ile Leu Phe						
	260		265		270	
Thr Gly Glu Leu Trp Glu Phe Leu Ser Phe Ala Glu Arg Tyr Pro Ala						
	275		280		285	
Ile Ile Tyr Asn Ile Leu Leu Phe Gly Leu Thr Ser Ala Leu Gly Gln						
	290		295		300	
Ser Phe Ile Phe Met Thr Val Val Tyr Phe Gly Pro Leu Thr Cys Ser						
	305		310		315	
Ile Ile Thr Thr Thr Arg Lys Phe Phe Thr Ile Leu Ala Ser Val Ile						
	325		330		335	
Leu Phe Ala Asn Pro Ile Ser Pro Met Gln Trp Val Gly Thr Val Leu						
	340		345		350	
Val Phe Leu Gly Leu Gly Leu Asp Ala Lys Phe Gly Lys Gly Ala Lys						
	355		360		365	
Lys Thr Ser His						
	370					

<210> 922

<211> 363

<212> PRT

<213> Homo sapiens

873

<400> 922

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Pro Ala Arg Thr Met Phe Tyr Ala His Phe Val Leu Ser Lys Arg Gly
 1              5              10              15

Pro Leu Ala Lys Ile Trp Leu Ala Ala His Trp Asp Lys Lys Leu Thr
      20              25              30

Lys Ala His Val Phe Glu Cys Asn Leu Glu Ser Ser Val Glu Ser Ile
      35              40              45

Ile Ser Pro Lys Val Lys Met Ala Leu Arg Thr Ser Gly His Leu Leu
      50              55              60

Leu Gly Val Val Arg Ile Tyr His Arg Lys Ala Lys Tyr Leu Leu Ala
      65              70              75              80

Asp Cys Asn Glu Ala Phe Ile Lys Ile Lys Met Ala Phe Arg Pro Gly
      85              90              95

Val Val Asp Leu Pro Glu Glu Asn Arg Glu Ala Ala Tyr Asn Ala Ile
      100             105             110

Thr Leu Pro Glu Glu Phe His Asp Phe Asp Gln Pro Leu Pro Asp Leu
      115             120             125

Asp Asp Ile Asp Val Ala Gln Gln Phe Ser Leu Asn Gln Ser Arg Val
      130             135             140

Glu Glu Ile Thr Met Arg Glu Glu Val Gly Asn Ile Ser Ile Leu Gln
      145             150             155             160

Glu Asn Asp Phe Gly Asp Phe Gly Met Asp Asp Arg Glu Ile Met Arg
      165             170             175

Glu Gly Ser Ala Phe Glu Asp Asp Asp Met Leu Val Ser Thr Thr Thr
      180             185             190

Ser Asn Leu Leu Leu Glu Ser Glu Gln Ser Thr Ser Asn Leu Asn Glu
      195             200             205

Lys Ile Asn His Leu Glu Tyr Glu Asp Gln Tyr Lys Asp Asp Asn Phe
      210             215             220

Gly Glu Gly Asn Asp Gly Gly Ile Leu Asp Asp Lys Leu Ile Ser Asn
      225             230             235             240

Asn Asp Gly Gly Ile Phe Asp Asp Pro Pro Ala Leu Ser Glu Ala Gly
      245             250             255

Val Met Leu Pro Glu Gln Pro Ala His Asp Asp Met Asp Glu Asp Asp
      260             265             270

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874

Asn Val Ser Met Gly Gly Pro Asp Ser Pro Asp Ser Val Asp Pro Val
 275 280 285

Glu Pro Met Pro Thr Met Thr Asp Gln Thr Thr Leu Val Pro Asn Glu
 290 295 300

Glu Glu Ala Phe Ala Leu Glu Pro Ile Asp Ile Thr Val Lys Glu Thr
 305 310 315 320

Lys Ala Lys Arg Lys Arg Lys Leu Ile Val Asp Ser Val Lys Glu Leu
 325 330 335

Asp Ser Lys Thr Ile Arg Ala Gln Leu Ser Asp Tyr Ser Asp Ile Val
 340 345 350

Thr Thr Leu Asp Leu Ala Pro Pro Pro Arg Asn
 355 360

<210> 923

<211> 296

<212> PRT

<213> Homo sapiens

<400> 923

Val Ala Val Ile Trp Ala Tyr Trp Leu Gly Leu Lys Val Arg Arg Glu
 1 5 10 15

Tyr Arg Lys Phe Phe Arg Ala Asn Ala Gly Lys Lys Ile Tyr Glu Phe
 20 25 30

Thr Leu Gln Arg Ile Val Gln Lys Tyr Phe Leu Glu Met Lys Asn Lys
 35 40 45

Met Pro Ser Leu Ser Pro Ile Asp Lys Asn Trp Pro Ser Arg Pro Tyr
 50 55 60

Leu Phe Leu Asp Ser Thr His Lys Glu Leu Lys Arg Ile Phe His Leu
 65 70 75 80

Trp Arg Cys Lys Lys Tyr Arg Asp Gln Phe Thr Asp Gln Gln Lys Leu
 85 90 95

Ile Tyr Glu Glu Lys Leu Glu Ala Ser Glu Leu Phe Lys Asp Lys Lys
 100 105 110

Ala Leu Tyr Pro Ser Ser Val Gly Gln Pro Phe Gln Gly Ala Tyr Leu
 115 120 125

875

Glu Ile Asn Lys Asn Pro Lys Tyr Lys Lys Leu Lys Asp Ala Ile Glu
 130 135 140
 Glu Lys Ile Ile Ile Ala Glu Val Val Asn Lys Ile Asn Arg Ala Asn
 145 150 155 160
 Gly Lys Ser Thr Ser Arg Ile Phe Leu Leu Thr Asn Asn Asn Leu Leu
 165 170 175
 Leu Ala Asp Gln Lys Ser Gly Gln Ile Lys Ser Glu Val Pro Leu Val
 180 185 190
 Asp Val Thr Lys Val Ser Met Ser Ser Gln Asn Asp Gly Phe Phe Ala
 195 200 205
 Val His Leu Lys Glu Gly Ser Glu Ala Ala Ser Lys Gly Asp Phe Leu
 210 215 220
 Phe Ser Ser Asp His Leu Ile Glu Met Ala Thr Lys Leu Tyr Arg Thr
 225 230 235 240
 Thr Leu Ser Gln Thr Lys Gln Lys Leu Asn Ile Glu Ile Ser Asp Glu
 245 250 255
 Phe Leu Val Gln Phe Arg Gln Asp Lys Val Cys Val Lys Phe Ile Gln
 260 265 270
 Gly Asn Gln Lys Asn Gly Ser Val Pro Thr Cys Lys Arg Lys Asn Asn
 275 280 285
 Arg Leu Leu Glu Val Ala Val Pro
 290 295

<210> 924

<211> 91

<212> PRT

<213> Homo sapiens

<400> 924

His Phe Ser Ile Asn Tyr Asn Gln Lys Ser Asp Leu Leu Lys Glu Lys
 1 5 10 15
 Ser Asp Cys Lys Ser Phe Gln Gly Gln Thr Ala Thr Glu Pro Pro Thr
 20 25 30
 Pro Lys Gln Glu Thr Leu Val Lys Val Gln Glu Ala Arg Arg Phe Ser
 35 40 45
 Pro Thr Lys Val Gln Leu Gly Asn Asp Ala Glu Arg Met Thr Thr Thr

876

50 55 60
 Cys Asn Ser Arg Lys Met Leu Ala Ser Arg Val Arg Val Thr Ser Glu
 65 70 75 80
 Cys His Lys Ser Ser Leu Ser His Cys Leu Ile
 85 90

<210> 925

<211> 159

<212> PRT

<213> Homo sapiens

<400> 925

Asn Ser Ala Arg Ala Gly Gly Arg Ala Val Leu Ser Gly Glu Pro Glu
 1 5 10 15
 Ala Asn Met Asp Gln Glu Thr Val Gly Asn Val Val Leu Leu Ala Ile
 20 25 30
 Val Thr Leu Ile Ser Val Val Gln Asn Gly Phe Phe Ala His Lys Val
 35 40 45
 Glu His Glu Ser Arg Thr Gln Asn Gly Arg Ser Phe Gln Arg Thr Gly
 50 55 60
 Thr Leu Ala Phe Glu Arg Val Tyr Thr Ala Asn Gln Asn Cys Val Asp
 65 70 75 80
 Ala Tyr Pro Thr Phe Leu Ala Val Leu Trp Ser Ala Gly Leu Leu Cys
 85 90 95
 Ser Gln Val Pro Ala Ala Phe Ala Gly Leu Met Tyr Leu Phe Val Arg
 100 105 110
 Gln Lys Tyr Phe Val Gly Tyr Leu Gly Glu Arg Thr Gln Ser Thr Pro
 115 120 125
 Gly Tyr Ile Phe Gly Glu Thr His His Thr Leu Pro Val Pro His Val
 130 135 140
 Arg Cys Trp His Ile Gln Leu Leu Pro His Leu Leu Phe Arg Lys
 145 150 155

<210> 926

<211> 303

<212> PRT

877

<213> Homo sapiens

<400> 926

Gly	Ser	Leu	Ala	Ser	Pro	Pro	Ser	Leu	Gly	Ser	Met	Gly	Glu	Lys	Ser	1	5	10	15
Glu	Asn	Cys	Gly	Val	Pro	Glu	Asp	Leu	Leu	Asn	Gly	Leu	Lys	Val	Thr	20	25	30	
Asp	Thr	Gln	Glu	Ala	Glu	Cys	Ala	Gly	Pro	Pro	Val	Pro	Asp	Pro	Lys	35	40	45	
Asn	Gln	His	Ser	Gln	Ser	Lys	Leu	Leu	Arg	Asp	Asp	Glu	Ala	His	Leu	50	55	60	
Gln	Glu	Asp	Gln	Gly	Glu	Glu	Glu	Cys	Phe	His	Asp	Cys	Ser	Ala	Ser	65	70	75	80
Phe	Glu	Glu	Glu	Pro	Gly	Ala	Asp	Lys	Val	Glu	Asn	Lys	Ser	Asn	Glu	85	90	95	
Asp	Val	Asn	Ser	Ser	Glu	Leu	Asp	Glu	Glu	Tyr	Leu	Ile	Glu	Leu	Glu	100	105	110	
Lys	Asn	Met	Ser	Asp	Glu	Glu	Lys	Gln	Lys	Arg	Arg	Glu	Glu	Ser	Thr	115	120	125	
Arg	Leu	Lys	Glu	Glu	Gly	Asn	Glu	Gln	Phe	Lys	Lys	Gly	Asp	Tyr	Ile	130	135	140	
Glu	Ala	Glu	Ser	Ser	Tyr	Ser	Arg	Ala	Leu	Glu	Met	Cys	Pro	Ser	Cys	145	150	155	160
Phe	Gln	Lys	Glu	Arg	Ser	Ile	Leu	Phe	Ser	Asn	Arg	Ala	Ala	Ala	Arg	165	170	175	
Met	Lys	Gln	Asp	Lys	Lys	Glu	Met	Ala	Ile	Asn	Asp	Cys	Ser	Lys	Ala	180	185	190	
Ile	Gln	Leu	Asn	Pro	Ser	Tyr	Ile	Arg	Ala	Ile	Leu	Arg	Arg	Ala	Glu	195	200	205	
Leu	Tyr	Glu	Lys	Thr	Asp	Lys	Leu	Asp	Glu	Ala	Leu	Glu	Asp	Tyr	Lys	210	215	220	
Ser	Ile	Leu	Glu	Lys	Asp	Pro	Ser	Ile	His	Gln	Ala	Arg	Glu	Ala	Cys	225	230	235	240
Met	Arg	Leu	Pro	Lys	Gln	Ile	Glu	Glu	Arg	Asn	Glu	Arg	Leu	Lys	Glu	245	250	255	

878

Glu Met Leu Gly Lys Leu Lys Asp Leu Gly Asn Leu Val Leu Arg Pro
 260 265 270

Phe Gly Leu Ser Thr Glu Asn Phe Gln Ile Lys Gln Asp Ser Ser Thr
 275 280 285

Gly Ser Tyr Ser Ile Asn Phe Val Gln Asn Pro Asn Asn Asn Arg
 290 295 300

<210> 927

<211> 329

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 927

Xaa Gly Gly Cys Cys Ser Gly Pro Gly His Ser Lys Arg Arg Arg Gln
 1 5 10 15

Ala Pro Gly Val Gly Ala Val Gly Gly Gly Ser Pro Glu Arg Glu Glu
 20 25 30

Val Gly Ala Gly Tyr Asn Ser Glu Asp Glu Tyr Glu Ala Ala Ala Ala
 35 40 45

Arg Ile Glu Ala Met Asp Pro Ala Thr Val Glu Gln Gln Glu His Trp
 50 55 60

Phe Glu Lys Ala Leu Arg Asp Lys Lys Gly Phe Ile Ile Lys Gln Met
 65 70 75 80

Lys Glu Asp Gly Ala Cys Leu Phe Arg Ala Val Ala Asp Gln Val Tyr
 85 90 95

Gly Asp Gln Asp Met His Glu Val Val Arg Lys His Cys Met Asp Tyr
 100 105 110

Leu Met Lys Asn Ala Asp Tyr Phe Ser Asn Tyr Val Thr Glu Asp Phe
 115 120 125

Thr Thr Tyr Ile Asn Arg Lys Arg Lys Asn Asn Cys His Gly Asn His
 130 135 140

Ile Glu Met Gln Ala Met Ala Glu Met Tyr Asn Arg Pro Val Glu Val
 145 150 155 160

879

Tyr Gln Tyr Ser Thr Glu Pro Ile Asn Thr Phe His Gly Ile His Gln
 165 170 175
 Asn Glu Asp Glu Pro Ile Arg Val Ser Tyr His Arg Asn Ile His Tyr
 180 185 190
 Asn Ser Val Val Asn Pro Asn Lys Ala Thr Ile Gly Val Gly Leu Gly
 195 200 205
 Leu Pro Ser Phe Lys Pro Gly Phe Ala Glu Gln Ser Leu Met Lys Asn
 210 215 220
 Ala Ile Lys Thr Ser Glu Glu Ser Trp Ile Glu Gln Gln Met Leu Glu
 225 230 235 240
 Asp Lys Lys Arg Ala Thr Asp Trp Glu Ala Thr Asn Glu Ala Ile Glu
 245 250 255
 Glu Gln Val Ala Arg Glu Ser Tyr Leu Gln Trp Leu Arg Asp Gln Glu
 260 265 270
 Lys Gln Ala Arg Gln Val Arg Gly Pro Ser Gln Pro Arg Lys Ala Ser
 275 280 285
 Ala Thr Cys Ser Ser Ala Thr Ala Ala Ala Ser Ser Gly Leu Glu Glu
 290 295 300
 Trp Thr Ser Arg Ser Pro Arg Gln Glu Phe Gln Pro Arg His Leu Ser
 305 310 315 320
 Thr Leu Ser Cys Met Leu Asn Trp Ala
 325

<210> 928

<211> 436

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

880

<220>

<221> SITE

<222> (262)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 928

Lys	Arg	Phe	Leu	Arg	Asn	Phe	Lys	Leu	Leu	Thr	Lys	Arg	Glu	Phe	Trp
1				5					10					15	

Lys	Glu	Asn	Gln	Glu	His	Tyr	His	Ile	Val	Gln	Lys	Phe	Leu	Ile	Leu
		20						25					30		

Gly	Asp	Ile	Asp	Gly	Leu	Met	Asp	Glu	Phe	Ser	Lys	Trp	Leu	Ser	Lys
	35						40					45			

Ser	Arg	Asn	Asn	Leu	Pro	Gly	His	Leu	Leu	Arg	Phe	Met	Thr	His	Leu
	50					55					60				

Ile	Leu	Phe	Phe	Arg	Thr	Leu	Gly	Leu	Gln	Thr	Lys	Glu	Glu	Val	Ser
65					70					75					80

Ile	Glu	Val	Leu	Lys	Thr	Tyr	Ile	Gln	Leu	Leu	Ile	Arg	Glu	Lys	His
				85					90					95	

Thr	Asn	Leu	Ile	Ala	Phe	Tyr	Thr	Cys	His	Leu	Pro	Gln	Asp	Leu	Ala
		100						105					110		

Val	Ala	Gln	Tyr	Ala	Leu	Phe	Leu	Glu	Ser	Val	Thr	Glu	Phe	Glu	Gln
		115					120					125			

Arg	His	His	Cys	Leu	Glu	Leu	Ala	Lys	Glu	Ala	Asp	Leu	Asp	Val	Ala
	130						135					140			

Thr	Ile	Thr	Lys	Thr	Val	Val	Glu	Asn	Ile	Arg	Lys	Lys	Asp	Asn	Gly
145					150					155					160

Glu	Phe	Ser	His	His	Asp	Leu	Ala	Pro	Ala	Leu	Asp	Thr	Gly	Thr	Thr
				165					170					175	

Glu	Glu	Asp	Arg	Leu	Lys	Ile	Asp	Val	Ile	Asp	Trp	Leu	Val	Phe	Asp
		180						185					190		

Pro	Ala	Gln	Arg	Ala	Glu	Ala	Leu	Lys	Gln	Gly	Asn	Ala	Ile	Met	Arg
		195					200					205			

Lys	Xaa	Leu	Ala	Ser	Lys	Lys	His	Xaa	Ala	Ala	Lys	Glu	Val	Phe	Val
	210					215					220				

Lys	Ile	Pro	Gln	Asp	Ser	Ile	Ala	Glu	Ile	Tyr	Asn	Gln	Cys	Glu	Glu
225					230					235					240

Gln	Gly	Met	Glu	Ser	Pro	Leu	Pro	Ala	Glu	Asp	Asp	Asn	Ala	Ile	Arg
				245				250				255			
Glu	His	Leu	Cys	Ile	Xaa	Ala	Tyr	Leu	Glu	Ala	His	Glu	Thr	Phe	Asn
				260				265				270			
Glu	Trp	Phe	Lys	His	Met	Asn	Ser	Val	Pro	Gln	Lys	Pro	Ala	Leu	Ile
				275				280				285			
Pro	Gln	Pro	Thr	Phe	Thr	Glu	Lys	Val	Ala	His	Glu	His	Lys	Glu	Lys
				290				295				300			
Lys	Tyr	Glu	Met	Asp	Phe	Gly	Ile	Trp	Lys	Gly	His	Leu	Asp	Ala	Leu
305				310				315				320			
Thr	Ala	Asp	Val	Lys	Glu	Lys	Met	Tyr	Asn	Val	Leu	Leu	Phe	Val	Asp
				325				330				335			
Gly	Gly	Trp	Met	Val	Asp	Val	Arg	Glu	Asp	Ala	Lys	Glu	Asp	His	Glu
				340				345				350			
Arg	Thr	His	Gln	Met	Val	Leu	Leu	Arg	Lys	Leu	Cys	Leu	Pro	Met	Leu
				355				360				365			
Cys	Phe	Leu	Leu	His	Thr	Ile	Leu	His	Ser	Thr	Gly	Gln	Tyr	Gln	Glu
				370				375				380			
Cys	Leu	Gln	Leu	Ala	Asp	Met	Val	Ser	Ser	Glu	Arg	His	Lys	Leu	Tyr
385				390				395				400			
Leu	Val	Phe	Ser	Lys	Glu	Glu	Leu	Arg	Lys	Leu	Leu	Gln	Lys	Leu	Arg
				405				410				415			
Glu	Ser	Ser	Leu	Met	Leu	Leu	Asp	Gln	Gly	Leu	Asp	Pro	Leu	Gly	Tyr
				420				425				430			
Glu	Ile	Gln	Leu												
435															

<210> 929

<211> 161

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

882

<400> 929

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Asp Ala Asp Val Gln Phe Leu Ala Ser Val Leu Pro Pro Asp Thr Asp
 1              5              10              15
Pro Ala Phe Phe Glu His Leu Arg Ala Leu Asp Cys Ser Glu Val Thr
      20              25              30
Val Arg Ala Leu Pro Glu Gly Ser Leu Ala Phe Pro Gly Val Pro Leu
      35              40              45
Leu Gln Val Ser Gly Pro Leu Leu Val Val Gln Leu Leu Glu Thr Pro
      50              55              60
Leu Leu Cys Leu Val Ser Tyr Ala Ser Leu Val Ala Thr Asn Ala Ala
      65              70              75              80
Arg Leu Arg Leu Ile Ala Gly Pro Glu Lys Arg Leu Leu Glu Met Gly
      85              90              95
Leu Arg Arg Ala Gln Gly Pro Asp Gly Gly Leu Thr Ala Ser Thr Tyr
      100             105             110
Ser Tyr Leu Gly Gly Phe Asp Ser Ser Ser Asn Val Leu Ala Gly Gln
      115             120             125
Leu Arg Gly Val Pro Val Ala Gly Thr Leu Ala His Ser Phe Val Thr
      130             135             140
Ser Phe Ser Gly Ser Glu Val Pro Leu Thr Arg Cys Trp Gly Xaa Ser
      145             150             155             160
Leu

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<210> 930

<211> 741

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

883

<220>

<221> SITE

<222> (282)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 930

Leu	Met	Lys	Ile	Glu	Ala	Asn	Xaa	Asp	His	Met	Gly	Phe	His	Phe	Thr
1				5				10					15		

Thr	Gly	Xaa	Pro	Ala	Pro	Ser	Thr	Glu	Thr	Glu	Leu	Asp	Val	Leu	Leu
			20					25					30		

Pro	Thr	Ala	Thr	Ser	Leu	Pro	Ile	Pro	Arg	Lys	Ser	Ala	Thr	Val	Ile
		35					40					45			

Pro	Glu	Ile	Glu	Gly	Ile	Lys	Ala	Glu	Ala	Lys	Ala	Leu	Asp	Asp	Met
	50					55					60				

Phe	Glu	Ser	Ser	Thr	Leu	Ser	Asp	Gly	Gln	Ala	Ile	Ala	Asp	Gln	Ser
65					70				75						80

Glu	Ile	Ile	Pro	Thr	Leu	Gly	Gln	Phe	Glu	Arg	Thr	Gln	Glu	Glu	Tyr
				85					90					95	

Glu	Asp	Lys	Lys	His	Ala	Gly	Pro	Ser	Phe	Gln	Pro	Glu	Phe	Ser	Ser
		100						105					110		

Gly	Ala	Glu	Glu	Ala	Leu	Val	Asp	His	Thr	Pro	Tyr	Leu	Ser	Ile	Ala
	115						120					125			

Thr	Thr	His	Leu	Met	Asp	Gln	Ser	Val	Thr	Glu	Val	Pro	Asp	Val	Met
	130					135						140			

Glu	Gly	Ser	Asn	Pro	Pro	Tyr	Tyr	Thr	Asp	Thr	Thr	Leu	Ala	Val	Ser
145					150				155						160

Thr	Phe	Ala	Lys	Leu	Ser	Ser	Gln	Thr	Pro	Ser	Ser	Pro	Leu	Thr	Ile
			165						170					175	

Tyr	Ser	Gly	Ser	Glu	Ala	Ser	Gly	His	Thr	Glu	Ile	Pro	Gln	Pro	Ser
		180						185					190		

Ala	Leu	Pro	Gly	Ile	Asp	Val	Gly	Ser	Ser	Val	Met	Ser	Pro	Gln	Asp
		195					200					205			

Ser	Phe	Lys	Glu	Ile	His	Val	Asn	Ile	Glu	Ala	Thr	Phe	Lys	Pro	Ser
	210					215					220				

Ser	Glu	Glu	Tyr	Leu	His	Ile	Thr	Glu	Pro	Pro	Ser	Leu	Ser	Pro	Asp
225					230				235						240

884

Thr	Lys	Leu	Glu	Pro	Ser	Glu	Asp	Asp	Gly	Lys	Pro	Glu	Leu	Leu	Glu	245	250	255	
Glu	Met	Glu	Ala	Ser	Pro	Thr	Glu	Leu	Ile	Ala	Val	Glu	Gly	Thr	Glu	260	265	270	
Ile	Leu	Gln	Asp	Phe	Gln	Asn	Lys	Thr	Xaa	Gly	Gln	Val	Ser	Gly	Glu	275	280	285	
Ala	Ile	Lys	Met	Phe	Pro	Thr	Ile	Lys	Thr	Pro	Glu	Ala	Gly	Thr	Val	290	295	300	
Ile	Thr	Thr	Ala	Asp	Glu	Ile	Glu	Leu	Glu	Gly	Ala	Thr	Gln	Trp	Pro	305	310	315	320
His	Ser	Thr	Ser	Ala	Ser	Ala	Thr	Tyr	Gly	Val	Glu	Ala	Gly	Val	Val	325	330	335	
Pro	Trp	Leu	Ser	Pro	Gln	Thr	Ser	Glu	Arg	Pro	Thr	Leu	Ser	Ser	Ser	340	345	350	
Pro	Glu	Ile	Asn	Pro	Glu	Thr	Gln	Ala	Ala	Leu	Ile	Arg	Gly	Gln	Asp	355	360	365	
Ser	Thr	Ile	Ala	Ala	Ser	Glu	Gln	Gln	Val	Ala	Ala	Arg	Ile	Leu	Asp	370	375	380	
Ser	Asn	Asp	Gln	Ala	Thr	Val	Asn	Pro	Val	Glu	Phe	Asn	Thr	Glu	Val	385	390	395	400
Ala	Thr	Pro	Pro	Phe	Ser	Leu	Leu	Glu	Thr	Ser	Asn	Glu	Thr	Asp	Phe	405	410	415	
Leu	Ile	Gly	Ile	Asn	Glu	Glu	Ser	Val	Glu	Gly	Thr	Ala	Ile	Tyr	Leu	420	425	430	
Pro	Gly	Pro	Asp	Arg	Cys	Lys	Met	Asn	Pro	Cys	Leu	Asn	Gly	Gly	Thr	435	440	445	
Cys	Tyr	Pro	Thr	Glu	Thr	Ser	Tyr	Val	Cys	Thr	Cys	Val	Pro	Gly	Tyr	450	455	460	
Ser	Gly	Asp	Gln	Cys	Glu	Leu	Asp	Phe	Asp	Glu	Cys	His	Ser	Asn	Pro	465	470	475	480
Cys	Arg	Asn	Gly	Ala	Thr	Cys	Val	Asp	Gly	Phe	Asn	Thr	Phe	Arg	Cys	485	490	495	
Leu	Cys	Leu	Pro	Ser	Tyr	Val	Gly	Ala	Leu	Cys	Glu	Gln	Asp	Thr	Glu	500	505	510	

885

Thr Cys Asp Tyr Gly Trp His Lys Phe Gln Gly Gln Cys Tyr Lys Tyr
 515 520 525
 Phe Ala His Arg Arg Thr Trp Asp Ala Ala Glu Arg Glu Cys Arg Leu
 530 535 540
 Gln Gly Ala His Leu Thr Ser Ile Leu Ser His Glu Glu Gln Met Phe
 545 550 555 560
 Val Asn Arg Val Gly His Asp Tyr Gln Trp Ile Gly Leu Asn Asp Lys
 565 570 575
 Met Phe Glu His Asp Phe Arg Trp Thr Asp Gly Ser Thr Leu Gln Tyr
 580 585 590
 Glu Asn Trp Arg Pro Asn Gln Pro Asp Ser Phe Phe Ser Ala Gly Glu
 595 600 605
 Asp Cys Val Val Ile Ile Trp His Glu Asn Gly Gln Trp Asn Asp Val
 610 615 620
 Pro Cys Asn Tyr His Leu Thr Tyr Thr Cys Lys Lys Gly Thr Val Ala
 625 630 635 640
 Cys Gly Gln Pro Pro Val Val Glu Asn Ala Lys Thr Phe Gly Lys Met
 645 650 655
 Lys Pro Arg Tyr Glu Ile Asn Ser Leu Ile Arg Tyr His Cys Lys Asp
 660 665 670
 Gly Phe Ile Gln Arg His Leu Pro Thr Ile Arg Cys Leu Gly Asn Gly
 675 680 685
 Arg Trp Ala Ile Pro Lys Ile Thr Cys Met Asn Pro Ser Ala Tyr Gln
 690 695 700
 Arg Thr Tyr Ser Met Lys Tyr Phe Lys Asn Ser Ser Ser Ala Lys Asp
 705 710 715 720
 Asn Ser Ile Asn Thr Ser Lys His Asp His Arg Trp Ser Arg Arg Trp
 725 730 735
 Gln Glu Ser Arg Arg
 740

<210> 931

<211> 209

<212> PRT

<213> Homo sapiens

886

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 931

Gly	Lys	Ala	Gly	Asp	Gln	Leu	Val	Pro	Asp	Asn	Leu	Lys	Glu	Thr	Asp
1				5					10					15	

Lys	Glu	Lys	Gly	Asn	Val	Val	Leu	Lys	Gly	Glu	Xaa	Ser	Ala	Arg	Met
			20					25					30		

Lys	Ile	Pro	Ser	Asn	Met	Trp	Val	Glu	Ala	Trp	Glu	Thr	Ala	Lys	Pro
		35					40					45			

Ile	Pro	Ala	Arg	Arg	Gln	Arg	Arg	Leu	Phe	Asp	Asp	Thr	Arg	Glu	Ala
	50					55					60				

Glu	Lys	Val	Leu	His	Tyr	Leu	Ala	Ile	Gln	Lys	Pro	Ala	Asp	Leu	Ala
65					70					75					80

Arg	His	Leu	Leu	Pro	Cys	Val	Ile	His	Ala	Ala	Val	Leu	Lys	Val	Lys
				85					90					95	

Glu	Glu	Glu	Ser	Leu	Glu	Asn	Ile	Ser	Ser	Val	Lys	Lys	Ile	Ile	Lys
			100					105					110		

Gln	Ile	Ile	Ser	His	Ser	Ser	Lys	Val	Leu	His	Phe	Pro	Asn	Pro	Glu
		115					120					125			

Asp	Lys	Lys	Leu	Glu	Glu	Ile	Ile	His	Gln	Ile	Thr	Asn	Val	Glu	Ala
	130					135					140				

Leu	Ile	Ala	Arg	Ala	Arg	Ser	Leu	Lys	Ala	Lys	Phe	Gly	Thr	Glu	Lys
145					150					155					160

Cys	Glu	Gln	Glu	Glu	Glu	Lys	Glu	Asp	Leu	Glu	Arg	Phe	Val	Ser	Cys
			165						170					175	

Leu	Leu	Glu	Gln	Pro	Glu	Val	Leu	Val	Thr	Gly	Ala	Gly	Arg	Gly	His
			180					185					190		

Ala	Gly	Arg	Ile	Ile	His	Lys	Leu	Phe	Val	Asn	Ala	Gln	Arg	Cys	Gln
		195					200					205			

Leu

887

<210> 932
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 932
 Leu Leu Glu Val Pro Glu Met Gly Leu Thr Phe Ile Lys Gln Ile Ala
 1 5 10 15
 Tyr Tyr Asp Leu Ala Ala Ala Thr Val Gln Leu His Ile Asn Ser Thr
 20 25 30
 Asp Gln Thr Ile Cys Ile Trp His His Leu Leu Thr His Asp Met Arg
 35 40 45
 Leu Phe Cys Ile Asn Cys Tyr Asp Gly
 50 55

<210> 933
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 933
 Ile Lys Glu Glu Ser Asp Tyr His Asp Leu Glu Ser Val Val Gln Gln
 1 5 10 15
 Val Glu Gln Asn Leu Glu Leu Met Thr Lys Arg Ala Val Lys Ala Glu
 20 25 30
 Asn His Val Val Lys Leu Lys Gln Glu Ile Ser Leu Leu Gln Ala Gln
 35 40 45
 Val Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys Gly Gln Gly
 50 55 60
 Ala Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala Leu Gln Asn
 65 70 75 80
 Leu Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Lys Gln Leu Val
 85 90 95
 Ser Gly Ala Glu Thr Leu Asn Leu Val Ala Glu Ile Leu Lys Ser Ile
 100 105 110
 Asp Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
 115 120 125

888

<210> 934

<211> 306

<212> PRT

<213> Homo sapiens

<400> 934

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Pro Thr Phe Ser Arg Ala Val Ala Thr Met Phe Ser Arg Ala Gly Val
  1              5              10              15

Ala Gly Leu Ser Ala Trp Thr Leu Gln Pro Gln Trp Ile Gln Val Arg
      20              25              30

Asn Met Ala Thr Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile Lys
      35              40              45

Asn Ile Gln Lys Ile Thr Lys Ser Met Lys Met Val Ala Ala Ala Lys
      50              55              60

Tyr Ala Arg Ala Glu Arg Glu Leu Lys Pro Ala Arg Ile Tyr Gly Leu
      65              70              75              80

Gly Ser Leu Ala Leu Tyr Glu Lys Ala Asp Ile Lys Gly Pro Glu Asp
      85              90              95

Lys Lys Lys His Leu Leu Ile Gly Val Ser Ser Asp Arg Gly Leu Cys
      100             105             110

Gly Ala Ile His Ser Ser Ile Ala Lys Gln Met Lys Ser Glu Val Ala
      115             120             125

Thr Leu Thr Ala Ala Gly Lys Glu Val Met Leu Val Gly Ile Gly Asp
      130             135             140

Lys Ile Arg Gly Ile Leu Tyr Arg Thr His Ser Asp Gln Phe Leu Val
      145             150             155             160

Ala Phe Lys Glu Val Gly Arg Lys Pro Pro Thr Phe Gly Asp Ala Ser
      165             170             175

Val Ile Ala Leu Glu Leu Leu Asn Ser Gly Tyr Glu Phe Asp Glu Gly
      180             185             190

Ser Ile Ile Phe Asn Lys Phe Arg Ser Val Ile Ser Tyr Lys Thr Glu
      195             200             205

Glu Lys Pro Ile Phe Ser Leu Asn Thr Val Ala Ser Ala Asp Ser Met
      210             215             220

Ser Ile Tyr Asp Asp Ile Asp Ala Asp Val Leu Gln Asn Tyr Gln Glu
      225             230             235             240

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Tyr Asn Leu Ala Asn Ile Ile Tyr Tyr Ser Leu Lys Glu Ser Thr Thr
245 250 255

Ser Glu Gln Ser Ala Arg Met Thr Ala Met Asp Asn Ala Ser Lys Asn
260 265 270

Ala Ser Glu Met Ile Asp Lys Leu Thr Leu Thr Phe Asn Arg Thr Arg
275 280 285

Gln Ala Val Ile Thr Lys Glu Leu Ile Glu Ile Ile Ser Gly Ala Ala
290 295 300

Ala Leu
305

<210> 935

<211> 135

<212> PRT

<213> Homo sapiens

<400> 935

Gly Ala Leu Cys Ala Ala Ser Val Pro Arg Cys Val Trp Ser Ser Ala
1 5 10 15

Gly Val Val Ala Leu Phe Glu Glu His Cys Ala Pro Leu Val Trp Val
20 25 30

Tyr Thr Tyr Glu Cys Cys His Tyr Met Cys Ser Ala Leu Leu Ser Leu
35 40 45

Ser Cys Pro Cys Pro Ala Pro Ser Glu Arg Ala Ala Gly Leu Cys Cys
50 55 60

Arg	Leu	Val	Val	Pro	Cys	His	Lys	Gly	Met	Pro	Arg	Leu	Thr	Asp	Leu
65					70					75					80

Ser Val Lys Thr Lys Asp Val Trp Glu Ile Pro Arg Glu Ser Leu Gln
85 90 95

Leu Ile Lys Arg Leu Gly Asn Gly Gln Phe Gly Glu Val Trp Met Gly
100 105 110

Met Leu Arg Leu Asn Tyr Ser Leu Ile Ser Phe Pro Val Trp Lys Ile
115 120 125

Pro	Asn	Thr	Lys	Asp	Gly	Arg
	130					135

890

<210> 936

<211> 284

<212> PRT

<213> Homo sapiens

<400> 936

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Leu Ser Gly Thr Thr Tyr Ala Arg Ala Cys Arg Ser Gln Cys Ala Ser
 1              5              10              15

Ala Ala Gly Gly Cys Thr Gly Gly Ala Gly Gly Gly Gly Gly Gly Gly
      20              25              30

Gly Gly Trp Gly Gly Ala Gly Gly Lys Cys Cys Asp Ala Val Pro Gly
      35              40              45

Arg Gly Arg Arg Val Glu Ala Glu Tyr Gln Phe Pro Ser Gly Lys Ala
      50              55              60

Ala Met Ala Ile Phe Ser Val Tyr Val Val Asn Lys Ala Gly Gly Leu
      65              70              75              80

Ile Tyr Gln Leu Asp Ser Tyr Ala Pro Arg Ala Glu Ala Glu Lys Thr
      85              90              95

Phe Ser Tyr Pro Leu Asp Leu Leu Leu Lys Leu His Asp Glu Arg Val
      100              105              110

Leu Val Ala Phe Gly Gln Arg Asp Gly Ile Arg Val Gly His Ala Val
      115              120              125

Leu Ala Ile Asn Gly Met Asp Val Asn Gly Arg Tyr Thr Ala Asp Gly
      130              135              140

Lys Glu Val Leu Glu Tyr Leu Gly Asn Pro Ala Asn Tyr Pro Val Ser
      145              150              155              160

Ile Arg Phe Gly Arg Pro Arg Leu Thr Ser Asn Glu Lys Leu Met Leu
      165              170              175

Ala Ser Met Phe His Ser Leu Phe Ala Ile Gly Ser Gln Leu Ser Pro
      180              185              190

Glu Gln Gly Ser Ser Gly Ile Glu Met Leu Glu Thr Asp Thr Phe Lys
      195              200              205

Leu His Cys Tyr Gln Thr Leu Thr Gly Ile Lys Phe Val Val Leu Ala
      210              215              220

Asp Pro Arg Gln Ala Gly Ile Asp Ser Leu Leu Arg Lys Ile Tyr Glu

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891

225 230 235 240
 Ile Tyr Ser Asp Phe Ala Leu Lys Asn Pro Phe Tyr Ser Leu Glu Met
 245 250 255
 Pro Ile Arg Cys Glu Leu Phe Asp Gln Asn Leu Lys Leu Ala Leu Glu
 260 265 270
 Val Ala Glu Lys Ala Gly Thr Phe Gly Pro Gly Ser
 275 280

<210> 937

<211> 338

<212> PRT

<213> Homo sapiens

<400> 937

Pro Val Ser Pro Leu His Arg Glu Glu Gly Asp Lys Trp Gly Glu Val
 1 5 10 15
 Trp Cys Gln Met Gly Trp Arg Arg Lys Arg Val Pro Gln Arg Gly Arg
 20 25 30
 Lys Ala Pro Pro Pro Gln Leu His Gly Asn Ile Asn Asn Leu Tyr Phe
 35 40 45
 Pro Ile Arg Trp Arg Asp Arg Leu His Trp Asp Ser Pro Asn Pro Ala
 50 55 60
 Ala Glu Cys Gln Arg Pro Arg Ser Thr Leu Val Ser Arg Lys Pro Gly
 65 70 75 80
 Pro Gly Arg Ile Thr Trp Asp Glu Leu Ala Ala Ser Gly Leu Pro Ser
 85 90 95
 Cys Asp Ala Ala Val Asn Leu Ala Gly Glu Asn Ile Leu Asn Pro Leu
 100 105 110
 Arg Arg Trp Asn Glu Thr Phe Gln Lys Glu Val Leu Gly Ser Arg Leu
 115 120 125
 Glu Thr Thr Gln Leu Leu Ala Lys Ala Ile Thr Lys Ala Pro Gln Pro
 130 135 140
 Pro Lys Ala Trp Val Leu Val Thr Gly Val Ala Tyr Tyr Gln Pro Ser
 145 150 155 160
 Leu Thr Ala Glu Tyr Asp Glu Asp Ser Pro Gly Gly Asp Phe Asp Phe
 165 170 175

892

Phe Ser Asn Leu Val Thr Lys Trp Glu Ala Ala Ala Arg Leu Pro Gly
 180 185 190
 Asp Ser Thr Arg Gln Val Val Val Arg Ser Gly Val Val Leu Gly Arg
 195 200 205
 Gly Gly Gly Ala Met Gly His Met Leu Leu Pro Phe Arg Leu Gly Leu
 210 215 220
 Gly Gly Pro Ile Gly Ser Gly His Gln Phe Phe Pro Trp Ile His Ile
 225 230 235 240
 Gly Asp Leu Ala Gly Ile Leu Thr His Ala Leu Glu Ala Asn His Val
 245 250 255
 His Gly Val Leu Asn Gly Val Ala Pro Ser Ser Ala Thr Asn Ala Glu
 260 265 270
 Phe Ala Gln Thr Phe Gly Ala Ala Leu Gly Arg Arg Ala Phe Ile Pro
 275 280 285
 Leu Pro Ser Ala Val Val Gln Ala Val Phe Gly Arg Gln Arg Ala Ile
 290 295 300
 Met Leu Leu Glu Gly Gln Lys Val Ile Pro Arg Arg Thr Leu Ala Thr
 305 310 315 320
 Gly Tyr Gln Tyr Ser Phe Pro Glu Leu Gly Ala Ala Leu Lys Glu Ile
 325 330 335
 Val Ala

<210> 938

<211> 321

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (220)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (221)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (238)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (263)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (267)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (268)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 938
 Cys Gln Glu Trp Val Pro Asp Arg Glu Ser Tyr Val Ser His Met Lys
 1 5 10 15
 Lys Ser His Gly Arg Thr Leu Lys Arg Tyr Pro Cys Arg Gln Xaa Glu
 20 25 30
 Gln Ser Phe His Thr Pro Asn Ser Leu Arg Lys His Ile Arg Asn Asn
 35 40 45
 His Asp Thr Val Lys Lys Phe Tyr Thr Cys Gly Tyr Cys Thr Glu Asp
 50 55 60
 Ser Pro Ser Phe Pro Arg Pro Ser Leu Leu Glu Ser His Ile Ser Leu
 65 70 75 80
 Met His Gly Ile Arg Asn Pro Asp Leu Ser Gln Thr Ser Lys Val Lys
 85 90 95
 Pro Pro Gly Gly His Ser Pro Gln Val Asn His Leu Lys Arg Pro Val
 100 105 110

894

Ser Gly Val Gly Asp Ala Pro Gly Thr Ser Asn Gly Ala Thr Val Ser
 115 120 125
 Ser Thr Lys Arg His Lys Ser Leu Phe Gln Cys Ala Lys Cys Ser Phe
 130 135 140
 Ala Thr Asp Ser Gly Leu Glu Phe Gln Ser His Ile Pro Gln His Gln
 145 150 155 160
 Val Gly Gln Xaa His Ser Pro Met Ser Pro Leu Trp Phe Val Leu His
 165 170 175
 Leu Cys Gln Leu Pro Gln Pro Pro Pro Leu His Cys Pro Gln Gly Glu
 180 185 190
 Arg Pro Gly Gly Gly Gly Gly Arg Gly Gly Gly Gly Thr Glu Met Ala
 195 200 205
 Val Glu Val Ala Glu Gln Arg Arg Ala Pro Gly Xaa Xaa Cys Pro Trp
 210 215 220
 Arg Leu Glu Arg Met Asp Trp Lys Asn Val Pro Val Ser Xaa Cys Gln
 225 230 235 240
 Leu Thr Gln Arg Arg Gly Asp Cys Trp Ala Arg Pro Leu Arg Thr Met
 245 250 255
 Val Ala Thr Met Ile Thr Xaa Asn His Arg Xaa Xaa Arg Thr Arg Thr
 260 265 270
 Ala Thr His Cys Pro Leu Arg Cys Asp Arg Arg Leu Cys Ser Val His
 275 280 285
 Gly Gln Gly Trp Cys Arg Ser Val Phe His Leu Pro Cys Gly Pro Trp
 290 295 300
 Lys Ile Lys Gly Ser Ala Pro Ser Val Ser Val Thr Gly Cys Thr Leu
 305 310 315 320
 Glu

<210> 939

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 939
 Ala Ala Ser Xaa Gly Glu Gln Arg Glu Arg Ala Arg Leu Gln Thr Pro
 1 5 10 15
 Thr Arg Pro His Ser Thr Ser Ala Arg Pro Arg Arg Arg Gln Val Gln
 20 25 30
 Leu Leu Gln Leu Cys Gly Cys Ala Ala Lys Gly Xaa Ala His Gly Leu
 35 40 45
 Asp Val Thr Ser Pro Thr Val Ser Trp Leu Ala Cys Pro Cys Ala Arg
 50 55 60
 Pro Ser Xaa Ser Arg Gln Xaa Leu Gly Thr Ser Glu Glu Glu Pro Gly
 65 70 75 80
 Xaa Asn Gly Lys Gly Gly Ile Gly Val His His Ser Leu Leu Leu Trp
 85 90 95
 Ser Ser Thr Gly Gly Thr Xaa Met Glu Val Ser Cys Leu Thr Ser Leu
 100 105 110

896

His Cys Thr Gly Pro Gly Met Pro Ile His Pro Leu Ala Glu Asp Thr
 115 120 125

His Gln Val Ile Cys Glu Glu Thr Leu Gly Ser His His Leu Lys Ala
 130 135 140

Arg Gly Ser Pro Ser His Arg
 145 150

<210> 940

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 940

Arg Cys Gly Trp Ser Ser Arg Ser Arg Arg Ser Arg Cys Ala Arg Arg
 1 5 10 15

Cys Pro Pro Ser Pro Cys Pro Thr Pro Arg His Val Pro Ser Ser Arg
 20 25 30

His Pro Glu Val Cys Gly Leu Arg Thr Asn Ser His Arg Cys Leu Phe
 35 40 45

Arg Pro Gln Leu Gln Ala Met Pro Ala Ala Gly Gly Val Leu Tyr Gln
 50 55 60

Pro Ser Gly Pro Ala Ser Phe Pro Ser Thr Phe Ser Pro Ala Gly Ser
 65 70 75 80

Val Glu Gly Ser Pro Met His Gly Val Tyr Met Ser Gln Pro Val Pro
 85 90 95

Ala Ala Gly Pro Tyr Pro Xaa
 100

<210> 941

<211> 136

<212> PRT

<213> Homo sapiens

<220>

897

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 941

Thr Ala Gly Arg Ser Asp Val Leu Pro Val Ala Gly Gly Glu Val Arg
 1 5 10 15

Ala Leu Gln Glu Gly Gly Cys Gly Asp Lys Met Lys Ile Phe Val Gly
 20 25 30

Asn Val Asp Gly Ala Asp Thr Thr Pro Glu Glu Leu Ala Ala Leu Phe
 35 40 45

Ala Pro Tyr Gly Thr Val Met Ser Cys Ala Val Met Lys Gln Phe Ala
 50 55 60

Phe Val His Met Arg Glu Asn Ala Gly Ala Leu Arg Ala Ile Glu Ala
 65 70 75 80

Leu His Gly His Glu Leu Arg Pro Gly Arg Ala Leu Val Val Glu Met
 85 90 95

Ser Arg Pro Arg Pro Leu Asn Thr Trp Lys Ile Phe Val Gly Asn Val
 100 105 110

Ser Ala Ala Cys Thr Ser Gln Glu Leu Arg Xaa Ser Ser Ser Ala Ala
 115 120 125

Asp Ala Ser Ser Ser Val Thr Trp
 130 135

<210> 942

<211> 61

<212> PRT

<213> Homo sapiens

<400> 942

Ile Met Lys Glu Ser Ser Ser Val Leu Ala Lys Cys Ser Ser Ile Ala
 1 5 10 15

Gly Tyr Ile Gln Trp Ser Ser Ile Asn Ser Tyr Leu Ser Gly Leu Asn
 20 25 30

Gln Asn Cys Val Ser Leu Asn Ser Tyr His Thr Glu Gly Ala Ser Gln
 35 40 45

Ile Thr Ile Phe Leu Ser Ala Val Phe Leu Gln Lys Ser
 50 55 60

898

<210> 943
 <211> 580
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 943
 Gly Ala Gln Ala Gln Ala Ser Ala Arg Pro Leu Gln Ala Phe Gly Ala
 1 5 10 15
 Arg Ala Arg Leu Gly Tyr Gly Pro Gly Arg Arg Arg Pro Pro Ser Ala
 20 25 30
 Arg Cys Leu Ser Gly Thr Ala Asn Arg Arg Glu Arg Arg Arg Val Gly
 35 40 45
 Leu Ser Ala Xaa Leu Gly Ala Gly Ala His Ala Arg Ala Pro Pro Gln
 50 55 60
 Ala Gly Ala Met Ala Ser Gly Ser Xaa Ala Glu Cys Leu Gln Gln Glu
 65 70 75 80
 Thr Thr Cys Pro Val Cys Leu Gln Tyr Phe Ala Glu Pro Met Met Leu
 85 90 95
 Asp Cys Gly His Asn Ile Cys Cys Ala Cys Leu Ala Arg Cys Trp Gly
 100 105 110
 Thr Ala Glu Thr Asn Val Ser Cys Pro Gln Cys Arg Glu Thr Phe Pro
 115 120 125
 Gln Arg His Met Arg Pro Asn Arg His Leu Ala Asn Val Thr Gln Leu
 130 135 140
 Val Lys Gln Leu Arg Thr Glu Arg Pro Ser Gly Pro Gly Gly Glu Met
 145 150 155 160
 Gly Val Cys Glu Lys His Arg Glu Pro Leu Lys Leu Tyr Cys Glu Glu
 165 170 175

900

Lys Trp Thr Ile Gly Val Cys Glu Asp Ser Val Cys Arg Lys Gly Gly
 450 455 460
 Val Thr Ser Ala Pro Gln Asn Gly Phe Trp Ala Val Ser Leu Trp Tyr
 465 470 475 480
 Gly Lys Glu Tyr Trp Ala Leu Thr Ser Pro Met Thr Ala Leu Pro Leu
 485 490 495
 Arg Thr Pro Leu Gln Arg Val Gly Ile Phe Leu Asp Tyr Asp Ala Gly
 500 505 510
 Glu Val Ser Phe Tyr Asn Val Thr Glu Arg Cys His Thr Phe Thr Phe
 515 520 525
 Ser His Ala Thr Phe Cys Gly Pro Val Arg Pro Tyr Phe Ser Leu Ser
 530 535 540
 Tyr Ser Gly Gly Lys Ser Ala Ala Pro Leu Ile Ile Cys Pro Met Ser
 545 550 555 560
 Gly Ile Asp Gly Phe Ser Gly His Val Gly Asn His Gly His Ser Met
 565 570 575
 Glu Thr Ser Pro
 580

<210> 944

<211> 437

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (317)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 944

901

Ser	Ala	Thr	Gly	Ser	Gly	Glu	Lys	Glu	Cys	Gly	Val	Thr	Ala	Thr	Phe	1	5	10	15
Asp	Ala	Ser	Arg	Thr	Thr	Phe	Thr	Arg	Glu	Gly	Ser	Phe	Arg	Val	Thr	20	25	30	
Thr	Ala	Thr	Glu	Gln	Ala	Glu	Arg	Glu	Glu	Ile	Met	Lys	Gln	Met	Gln	35	40	45	
Asp	Ala	Lys	Lys	Ala	Glu	Thr	Asp	Lys	Ile	Val	Val	Gly	Ser	Ser	Val	50	55	60	
Ala	Pro	Gly	Xaa	Thr	Ala	Pro	Ser	Pro	Ser	Ser	Pro	Thr	Ser	Pro	Thr	65	70	75	80
Ser	Asp	Ala	Thr	Thr	Ser	Leu	Glu	Met	Asn	Asn	Pro	His	Ala	Ile	Pro	85	90	95	
Arg	Arg	His	Ala	Pro	Ile	Glu	Gln	Leu	Ala	Arg	Gln	Gly	Ser	Phe	Arg	100	105	110	
Gly	Phe	Pro	Ala	Leu	Ser	Gln	Lys	Met	Ser	Pro	Phe	Lys	Arg	Gln	Leu	115	120	125	
Ser	Leu	Arg	Ile	Asn	Glu	Leu	Pro	Ser	Thr	Met	Gln	Arg	Lys	Thr	Asp	130	135	140	
Phe	Pro	Ile	Lys	Asn	Ala	Val	Pro	Glu	Val	Glu	Gly	Glu	Ala	Glu	Ser	145	150	155	160
Ile	Ser	Ser	Leu	Cys	Xaa	Gln	Ile	Thr	Asn	Ala	Phe	Ser	Thr	Pro	Glu	165	170	175	
Asp	Pro	Phe	Ser	Ser	Ala	Pro	Met	Thr	Lys	Pro	Val	Thr	Val	Val	Ala	180	185	190	
Pro	Gln	Ser	Pro	Thr	Phe	Gln	Gly	Thr	Glu	Trp	Gly	Gln	Ser	Ser	Gly	195	200	205	
Ala	Ala	Ser	Pro	Gly	Leu	Phe	Gln	Ala	Gly	His	Arg	Arg	Thr	Pro	Ser	210	215	220	
Glu	Ala	Asp	Arg	Trp	Leu	Glu	Glu	Val	Ser	Lys	Ser	Val	Arg	Ala	Gln	225	230	235	240
Gln	Pro	Gln	Ala	Ser	Ala	Ala	Pro	Leu	Gln	Pro	Val	Leu	Gln	Pro	Pro	245	250	255	
Pro	Pro	Thr	Ala	Ile	Ser	Gln	Pro	Ala	Ser	Pro	Phe	Gln	Gly	Asn	Ala	260	265	270	

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<210> 945
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 945
His Gly Ser Met Arg Arg Leu Leu Ile Pro Leu Ala Leu Trp Leu Gly
 1             5             10             15
Ala Val Gly Val Gly Val Ala Glu Leu Thr Glu Ala Gln Arg Arg Gly
      20             25             30

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903

Leu Gln Val Ala Leu Glu Glu Phe His Lys His Pro Pro Val Gln Trp
 35 40 45
 Ala Phe Gln Glu Thr Ser Val Glu Ser Ala Val Asp Thr Pro Phe Pro
 50 55 60
 Ala Gly Ile Phe Val Arg Leu Glu Phe Lys Leu Gln Gln Thr Ser Cys
 65 70 75 80
 Arg Lys Arg Asp Trp Lys Lys Pro Glu Cys Lys Val Arg Pro Asn Gly
 85 90 95
 Arg Lys Arg Lys Cys Leu Ala Cys Ile Lys Leu Gly Ser Glu Asp Lys
 100 105 110
 Val Leu Gly Arg Leu Val Xaa Cys Pro Ile Glu Thr Gln Val Leu Arg
 115 120 125
 Glu Thr Gln Cys Leu Arg Val Gln Arg Ala Gly Glu Asp Pro His Ser
 130 135 140
 Phe Tyr Phe Pro Gly Gln Phe Ala Phe Ser Lys Ala Leu Pro Arg Ser
 145 150 155 160

<210> 946

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 946

Gly Gly Asp Pro Pro Gly Asp Leu Ser Ser Leu Ser Ser Lys Leu Leu
 1 5 10 15
 Pro Gly Phe Thr Thr Leu Gly Phe Lys Asp Glu Arg Arg Asn Lys Val
 20 25 30
 Thr Phe Leu Ser Ser Ala Thr Thr Ala Leu Ser Met Gln Asn Asn Ser
 35 40 45
 Val Phe Gly Asp Leu Lys Ser Asp Glu Met Glu Leu Leu Tyr Ser Ala

904

50	55	60
Tyr Gly Asp Glu Thr Gly Val Gln Cys Ala Leu Ser Leu Gln Glu Phe		
65	70	75 80
Val Lys Asp Ala Gly Ser Tyr Ser Lys Lys Val Val Asp Asp Leu Leu		
	85	90 95
Asp Gln Ile Thr Gly Gly Asp His Ser Arg Thr Leu Phe Gln Leu Lys		
	100	105 110
Gln Arg Arg Asn Val Pro Met Lys Pro Pro Asp Glu Ala Lys Val Gly		
	115	120 125
Asp Thr Leu Gly Asp Ser Ser Ser Ser Val Leu Glu Phe Met Ser Met		
	130	135 140
Lys Ser Tyr Pro Asp Val Ser Val Asp Ile Ser Met Leu Ser Ser Leu		
	145	150 155 160
Gly Lys Val Lys Lys Glu Leu Asp Pro Asp Asp Ser His Leu Asn Leu		
	165	170 175
Asp Glu Thr Thr Lys Leu Leu Gln Asp Leu His Glu Ala Gln Ala Asp		
	180	185 190
Ala Ala Ala Leu Gly Xaa Arg Pro Thr Ser Ala Pro Cys Pro Thr Pro		
	195	200 205
Pro Arg Gly Thr Ser Thr Thr Trp Glu Ala Leu Leu Ala		
	210	215 220

<210> 947

<211> 316

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (293)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (312)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 947

Glu Gln Tyr Val Cys Ala Gln Arg Asp Glu Tyr Leu Glu Ser Phe Cys

905

1	5	10	15
Lys Met Ala Thr Arg Lys Ile Ser Val Ile Thr Ile Phe Gly Pro Val	20	25	30
Asn Asn Ser Thr Met Lys Ile Asp His Phe Gln Leu Asp Asn Glu Lys	35	40	45
Pro Met Arg Val Val Asp Asp Glu Asp Leu Val Asp Gln Arg Leu Ile	50	55	60
Ser Glu Leu Arg Lys Glu Tyr Gly Met Thr Tyr Asn Asp Phe Phe Met	65	70	75
Val Leu Thr Asp Val Asp Leu Arg Val Lys Gln Tyr Tyr Glu Val Pro	85	90	95
Ile Thr Met Lys Ser Val Phe Asp Leu Ile Asp Thr Phe Gln Ser Arg	100	105	110
Ile Lys Asp Met Glu Lys Gln Lys Lys Glu Gly Ile Val Cys Lys Glu	115	120	125
Asp Lys Lys Gln Ser Leu Glu Asn Phe Leu Ser Arg Phe Arg Trp Arg	130	135	140
Arg Arg Leu Leu Val Ile Ser Ala Pro Asn Asp Glu Asp Trp Ala Tyr	145	150	155
Ser Gln Gln Leu Ser Ala Leu Ser Gly Gln Ala Cys Asn Phe Gly Leu	165	170	175
Arg His Ile Thr Ile Leu Lys Leu Leu Gly Val Gly Glu Glu Val Gly	180	185	190
Gly Val Leu Glu Leu Phe Pro Ile Asn Gly Ser Ser Val Val Glu Arg	195	200	205
Glu Asp Val Pro Ala His Leu Val Lys Asp Ile Arg Asn Tyr Phe Gln	210	215	220
Val Ser Pro Glu Tyr Phe Ser Met Leu Leu Val Gly Lys Asp Gly Asn	225	230	235
Val Lys Ser Trp Tyr Pro Ser Pro Met Trp Ser Met Val Ile Val Tyr	245	250	255
Asp Leu Ile Asp Ser Met Gln Leu Arg Arg Gln Glu Met Ala Ile Gln	260	265	270
Gln Ser Leu Gly Met Arg Cys Pro Glu Asp Glu Tyr Ala Gly Tyr Gly			

906

275 280 285
 Tyr His Ser Tyr Xaa Gln Gly Tyr Gln Asp Gly Tyr Gln Asp Asp Tyr
 290 295 300
 Arg His His Glu Ser Tyr His Xaa Gly Tyr Pro Tyr
 305 310 315

<210> 948

<211> 162

<212> PRT

<213> Homo sapiens

<400> 948

Ser Thr His Ala Ser Ala His Ala Ser Gly Lys Gln Cys Gln Asp Ser
 1 5 10 15
 Lys Asp Ser Asn His Leu Pro Lys Met Ser Leu Ser Ala Phe Thr Leu
 20 25 30
 Phe Leu Ala Leu Ile Gly Gly Thr Ser Gly Gln Tyr Tyr Asp Tyr Asp
 35 40 45
 Phe Pro Leu Ser Ile Tyr Gly Gln Ser Ser Pro Asn Cys Ala Pro Glu
 50 55 60
 Cys Asn Cys Pro Glu Ser Tyr Pro Ser Ala Met Tyr Cys Asp Glu Leu
 65 70 75 80
 Lys Leu Lys Ser Val Pro Met Val Pro Pro Gly Ile Lys Tyr Leu Tyr
 85 90 95
 Leu Arg Asn Asn Gln Ile Asp His Ile Asp Glu Lys Ala Phe Glu Asn
 100 105 110
 Val Thr Asp Leu Gln Trp Leu Ile Leu Asp His Asn Leu Leu Glu Asn
 115 120 125
 Ser Lys Ile Lys Gly Arg Val Phe Ser Lys Leu Lys Gln Leu Lys Lys
 130 135 140
 Leu His Ile Asn His Asn Asn Leu Thr Glu Ser Val Gly Pro Leu Pro
 145 150 155 160
 Lys Ser

907

<210> 949
 <211> 185
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 949
 Leu Gly Phe Asn Tyr Tyr Tyr Lys Tyr Ser Asn Glu Gly Asp Ser His
 1 5 10 15
 Leu Gly Gly Gly Ser Arg Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu
 20 25 30
 Lys Trp Cys Thr Pro Arg Thr Asn Asn Ile Glu Leu His Tyr Cys Thr
 35 40 45
 Gly Ala Tyr Arg Ile Ser Pro Val Asp Val Asn Ser Arg Pro Ser Ser
 50 55 60
 Cys Leu Thr Asn Phe Leu Leu Asn Gly Arg Ser Val Leu Leu Glu Gln
 65 70 75 80
 Pro Arg Lys Ser Gly Ser Lys Val Ile Ser His Met Leu Ser Ser His
 85 90 95
 Gly Gly Glu Ile Phe Leu His Val Leu Ser Ser Ser Arg Ser Ile Leu
 100 105 110
 Glu Xaa Pro Pro Ser Ile Ser Glu Gly Cys Gly Gly Arg Val Thr Asp
 115 120 125
 Tyr Arg Ile Thr Asp Phe Gly Glu Phe Met Arg Glu Asn Arg Leu Thr
 130 135 140
 Pro Phe Leu Asp Pro Arg Tyr Lys Ile Asp Gly Ser Leu Glu Val Pro
 145 150 155 160
 Leu Glu Arg Ala Lys Asp Gln Leu Glu Lys His Thr Arg Tyr Trp Pro
 165 170 175
 Met Asp His Phe Thr Asn His His Phe
 180 185

<210> 950
 <211> 169

908

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 950

Pro	Arg	Arg	Pro	His	Arg	Ser	Cys	Asp	Met	Pro	Ala	Ser	Gly	Glu	Pro
1				5				10					15		

Leu	Gly	Cys	Thr	Pro	Leu	Leu	Pro	Asn	Asp	Ser	Gly	His	Pro	Ser	Glu
			20					25				30			

Leu	Gly	Gly	Thr	Arg	Arg	Ala	Gly	Asn	Gly	Ala	Leu	Gly	Gly	Pro	Lys
		35					40					45			

Ala	His	Arg	Lys	Leu	Gln	Thr	His	Pro	Ser	Leu	Ala	Ser	Gln	Gly	Ser
	50					55					60				

Lys	Lys	Ser	Lys	Ser	Ser	Ser	Lys	Ser	Thr	Thr	Ser	Gln	Ile	Pro	Leu
65					70				75						80

Gln	Ala	Gln	Glu	Asp	Cys	Cys	Val	His	Cys	Ile	Leu	Ser	Cys	Leu	Phe
				85					90					95	

Cys	Glu	Phe	Leu	Thr	Leu	Cys	Asn	Ile	Val	Leu	Asp	Cys	Ala	Thr	Cys
			100					105					110		

Gly	Ser	Cys	Ser	Ser	Glu	Asp	Ser	Cys	Leu	Cys	Cys	Cys	Cys	Cys	Gly
		115					120					125			

Ser	Gly	Glu	Cys	Ala	Asp	Cys	Asp	Leu	Pro	Cys	Asp	Leu	Asp	Cys	Gly
	130					135					140				

Ile	Leu	Asp	Ala	Cys	Cys	Glu	Ser	Ala	Asp	Cys	Leu	Glu	Ile	Cys	Met
145					150					155					160

Xaa	Cys	Cys	Gly	Leu	Cys	Phe	Ser	Ser
				165				

<210> 951

<211> 288

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 951

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Met Ser Asp Glu Thr Gly Arg Val Pro Glu Arg Asp Thr Lys Arg Met
 1             5             10             15

Gln Val Cys Leu Leu Ser Ala Met Pro Leu Pro Val Ala Leu Gln Thr
      20             25             30

Arg Leu Ala Lys Arg Gly Ile Leu Lys His Leu Glu Pro Glu Pro Glu
 35             40             45

Glu Glu Ile Ile Ala Glu Asp Tyr Asp Asp Asp Pro Val Asp Tyr Glu
 50             55             60

Ala Thr Arg Leu Glu Gly Leu Pro Pro Ser Trp Tyr Lys Val Phe Asp
 65             70             75             80

Pro Ser Cys Gly Leu Pro Tyr Tyr Trp Asn Ala Asp Thr Asp Leu Val
      85             90             95

Ser Trp Leu Ser Pro His Asp Pro Asn Ser Val Val Thr Lys Ser Ala
    100             105             110

Lys Lys Leu Arg Ser Ser Asn Ala Asp Ala Glu Glu Lys Leu Asp Arg
    115             120             125

Ser His Asp Lys Ser Asp Arg Gly His Asp Lys Ser Asp Arg Ser His
    130             135             140

Glu Lys Leu Asp Arg Gly His Asp Lys Ser Asp Arg Gly His Asp Lys
    145             150             155             160

Xaa Asp Arg Asp Arg Glu Arg Gly Tyr Asp Lys Val Asp Arg Glu Arg
      165             170             175

Glu Arg Asp Arg Glu Arg Asp Arg Asp Arg Gly Tyr Asp Lys Ala Asp
    180             185             190

Arg Glu Glu Gly Lys Glu Arg Arg His His Arg Arg Glu Glu Leu Ala
    195             200             205

Pro Tyr Pro Lys Ser Lys Lys Ala Val Ser Arg Lys Asp Glu Glu Leu
    210             215             220

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910

Asp Pro Met Asp Pro Ser Ser Tyr Ser Xaa Arg Pro Arg Gly Thr Trp
 225 230 235 240
 Ser Thr Gly Leu Pro Lys Arg Asn Glu Ala Lys Thr Gly Ala Asp Thr
 245 250 255
 Thr Ala Ala Gly Pro Leu Phe Gln Gln Arg Pro Tyr Pro Ser Pro Gly
 260 265 270
 Ala Val Leu Arg Ala Asn Ala Glu Ala Ser Arg Thr Lys Gln Gln Asp
 275 280 285

<210> 952

<211> 323

<212> PRT

<213> Homo sapiens

<400> 952

Val Gly Gly Val Leu Pro Gly Trp Lys Leu Arg Pro Arg Ser Asp Gly
 1 5 10 15
 Gly Leu Ser Glu Asp Gly Pro Gly Arg Asp His Gly Gly Gly Ser Arg
 20 25 30
 Gly Gly Arg Gly Gly Ala Ala Gly Gly Arg Gly Gly Cys Gly Pro Gln
 35 40 45
 Gly Ala Val Gly Gly Gly Met Ala Arg Ala Ser Ser Gly Asn Gly Ser
 50 55 60
 Glu Glu Ala Trp Gly Ala Leu Arg Ala Pro Gln Gln Gln Leu Arg Glu
 65 70 75 80
 Leu Cys Pro Gly Val Asn Asn Gln Pro Tyr Leu Cys Glu Ser Gly His
 85 90 95
 Cys Cys Gly Glu Thr Gly Cys Cys Thr Tyr Tyr Tyr Glu Leu Trp Trp
 100 105 110
 Phe Trp Leu Leu Trp Thr Val Leu Ile Leu Phe Ser Cys Cys Ala
 115 120 125
 Phe Arg His Arg Arg Ala Lys Leu Arg Leu Gln Gln Gln Gln Arg Gln
 130 135 140
 Arg Glu Ile Asn Leu Leu Ala Tyr His Gly Ala Cys His Gly Ala Gly

911

145 150 155 160
 Pro Phe Pro Thr Gly Ser Leu Leu Asp Leu Arg Phe Leu Ser Thr Phe
 165 170 175
 Lys Pro Pro Ala Tyr Glu Asp Val Val His Arg Pro Gly Thr Pro Pro
 180 185 190
 Pro Pro Tyr Thr Val Ala Pro Gly Arg Pro Leu Thr Ala Ser Ser Glu
 195 200 205
 Gln Thr Cys Cys Ser Ser Ser Ser Ser Cys Pro Ala His Phe Glu Gly
 210 215 220
 Thr Asn Val Glu Gly Val Ser Ser His Gln Ser Ala Pro Pro His Gln
 225 230 235 240
 Glu Gly Glu Pro Gly Ala Gly Val Thr Pro Ala Ser Thr Pro Pro Ser
 245 250 255
 Cys Arg Tyr Arg Arg Leu Thr Gly Asp Ser Gly Ile Glu Leu Cys Pro
 260 265 270
 Cys Pro Ala Ser Gly Glu Gly Glu Pro Val Lys Glu Val Arg Val Ser
 275 280 285
 Ala Thr Leu Pro Asp Leu Glu Asp Tyr Ser Pro Cys Ala Leu Pro Pro
 290 295 300
 Glu Ser Val Pro Gln Ile Phe Pro Met Gly Leu Ser Ser Ser Glu Gly
 305 310 315 320
 Asp Ile Pro

<210> 953

<211> 433

<212> PRT

<213> Homo sapiens

<400> 953

Ala Lys Met Ser Val Asn Val Asn Arg Ser Val Ser Asp Gln Phe Tyr
 1 5 10 15
 Arg Tyr Lys Met Pro Arg Leu Ile Ala Lys Val Glu Gly Lys Gly Asn
 20 25 30
 Gly Ile Lys Thr Val Ile Val Asn Met Val Asp Val Ala Lys Ala Leu
 35 40 45

Asn	Arg	Pro	Pro	Thr	Tyr	Pro	Thr	Lys	Tyr	Phe	Gly	Cys	Glu	Leu	Gly	50	55	60	
Ala	Gln	Thr	Gln	Phe	Asp	Val	Lys	Asn	Asp	Arg	Tyr	Ile	Val	Asn	Gly	65	70	75	80
Ser	His	Glu	Ala	Asn	Lys	Leu	Gln	Asp	Met	Leu	Asp	Gly	Phe	Ile	Lys	85	90	95	
Lys	Phe	Val	Leu	Cys	Pro	Glu	Cys	Glu	Asn	Pro	Glu	Thr	Asp	Leu	His	100	105	110	
Val	Asn	Pro	Lys	Lys	Gln	Thr	Ile	Gly	Asn	Ser	Cys	Lys	Ala	Cys	Gly	115	120	125	
Tyr	Arg	Gly	Met	Leu	Asp	Thr	His	His	Lys	Leu	Cys	Thr	Phe	Ile	Leu	130	135	140	
Lys	Asn	Pro	Pro	Glu	Asn	Ser	Asp	Ser	Gly	Thr	Gly	Lys	Lys	Glu	Lys	145	150	155	160
Glu	Lys	Lys	Asn	Arg	Lys	Gly	Lys	Asp	Lys	Glu	Asn	Gly	Ser	Val	Ser	165	170	175	
Ser	Ser	Glu	Thr	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Asn	Glu	Ile	Asn	Pro	180	185	190	
Pro	Pro	His	Thr	Met	Glu	Glu	Glu	Glu	Asp	Asp	Asp	Trp	Gly	Glu	Asp	195	200	205	
Thr	Thr	Glu	Glu	Ala	Gln	Arg	Arg	Arg	Met	Asp	Glu	Ile	Ser	Asp	His	210	215	220	
Ala	Lys	Val	Leu	Thr	Leu	Ser	Asp	Asp	Leu	Glu	Arg	Thr	Ile	Glu	Glu	225	230	235	240
Arg	Val	Asn	Ile	Leu	Phe	Asp	Phe	Val	Lys	Lys	Lys	Lys	Glu	Glu	Gly	245	250	255	
Val	Ile	Asp	Ser	Ser	Asp	Lys	Glu	Ile	Val	Ala	Glu	Ala	Glu	Arg	Leu	260	265	270	
Asp	Val	Lys	Ala	Met	Gly	Pro	Leu	Val	Leu	Thr	Glu	Val	Leu	Phe	Asn	275	280	285	
Glu	Lys	Ile	Arg	Glu	Gln	Ile	Lys	Lys	Tyr	Arg	Arg	His	Phe	Leu	Arg	290	295	300	
Phe	Cys	His	Asn	Asn	Lys	Lys	Ala	Gln	Arg	Tyr	Leu	Leu	His	Gly	Leu	305	310	315	320

Glu Cys Val Val Ala Met His Gln Ala Gln Leu Ile Ser Lys Ile Pro
 325 330 335
 His Ile Leu Lys Glu Met Tyr Asp Ala Asp Leu Leu Glu Glu Glu Val
 340 345 350
 Ile Ile Ser Trp Ser Glu Lys Ala Ser Lys Lys Tyr Val Ser Lys Glu
 355 360 365
 Leu Ala Lys Glu Ile Arg Val Lys Ala Glu Pro Phe Ile Lys Trp Leu
 370 375 380
 Lys Glu Ala Glu Glu Glu Ser Ser Gly Gly Glu Glu Glu Asp Glu Asp
 385 390 395 400
 Glu Asn Ile Glu Val Val Tyr Ser Lys Ala Ala Ser Val Pro Lys Val
 405 410 415
 Glu Thr Val Lys Ser Asp Asn Lys Asp Asp Asp Ile Asp Ile Asp Ala
 420 425 430

Ile

<210> 954
 <211> 428
 <212> PRT
 <213> Homo sapiens

<400> 954
 Gly Tyr Gln Ile Gly Met Ala Leu Ala Ser Gly Pro Ala Arg Arg Ala
 1 5 10 15
 Leu Ala Gly Ser Gly Gln Leu Gly Leu Gly Gly Phe Gly Ala Pro Arg
 20 25 30
 Arg Gly Ala Tyr Glu Trp Gly Val Arg Ser Thr Arg Lys Ser Glu Pro
 35 40 45
 Pro Pro Leu Asp Arg Val Tyr Glu Ile Pro Gly Leu Glu Pro Ile Thr
 50 55 60
 Phe Ala Gly Lys Met His Phe Val Pro Trp Leu Ala Arg Pro Ile Phe
 65 70 75 80
 Pro Pro Trp Asp Arg Gly Tyr Lys Asp Pro Arg Phe Tyr Arg Ser Pro
 85 90 95

Pro Leu His Glu His Pro Leu Tyr Lys Asp Gln Ala Cys Tyr Ile Phe
 100 105 110

His His Arg Cys Arg Leu Leu Glu Gly Val Lys Gln Ala Leu Trp Leu
 115 120 125

Thr Lys Thr Lys Leu Ile Glu Gly Leu Pro Glu Lys Val Leu Ser Leu
 130 135 140

Val Asp Asp Pro Arg Asn His Ile Glu Asn Gln Asp Glu Cys Val Leu
 145 150 155 160

Asn Val Ile Ser His Ala Arg Leu Trp Gln Thr Thr Glu Glu Ile Pro
 165 170 175

Lys Arg Glu Thr Tyr Cys Pro Val Ile Val Asp Asn Leu Ile Gln Leu
 180 185 190

Cys Lys Ser Gln Ile Leu Lys His Pro Ser Leu Ala Arg Arg Ile Cys
 195 200 205

Val Gln Asn Ser Thr Phe Ser Ala Thr Trp Asn Arg Glu Ser Leu Leu
 210 215 220

Leu Gln Val Arg Gly Ser Gly Gly Ala Arg Leu Ser Thr Lys Asp Pro
 225 230 235 240

Leu Pro Thr Ile Ala Ser Arg Glu Glu Ile Glu Ala Thr Lys Asn His
 245 250 255

Val Leu Glu Thr Phe Tyr Pro Ile Ser Pro Ile Ile Asp Leu His Glu
 260 265 270

Cys Asn Ile Tyr Asp Val Lys Asn Asp Thr Gly Phe Gln Glu Gly Tyr
 275 280 285

Pro Tyr Pro Tyr Pro His Thr Leu Tyr Leu Leu Asp Lys Ala Asn Leu
 290 295 300

Arg Pro His Arg Leu Gln Pro Asp Gln Leu Arg Ala Lys Met Ile Leu
 305 310 315 320

Phe Ala Phe Gly Ser Ala Leu Ala Gln Ala Arg Leu Leu Tyr Gly Asn
 325 330 335

Asp Ala Lys Val Leu Glu Gln Pro Val Val Val Gln Ser Val Gly Thr
 340 345 350

Asp Gly Arg Val Phe His Phe Leu Val Phe Gln Leu Asn Thr Thr Asp
 355 360 365

915

Leu Asp Ser Asn Glu Gly Val Lys Asn Leu Ala Trp Val Asp Ser Asp
 370 375 380

Gln Leu Leu Tyr Gln His Phe Trp Cys Leu Pro Val Ile Lys Lys Arg
 385 390 395 400

Val Val Val Glu Pro Val Gly Pro Val Gly Phe Lys Pro Glu Thr Phe
 405 410 415

Arg Lys Phe Leu Ala Leu Tyr Leu His Gly Ala Ala
 420 425

<210> 955

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 955

Asp Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Glu Pro Gly
 1 5 10 15

Asp Arg Met Leu Val Leu Val Leu Gly Asp Leu His Ile Pro His Arg
 20 25 30

Cys Asn Ser Leu Pro Ala Lys Phe Lys Lys Leu Leu Val Pro Gly Lys
 35 40 45

Ile Gln His Ile Leu Cys Thr Gly Asn Leu Cys Thr Lys Glu Ser Tyr
 50 55 60

Asp Tyr Leu Lys Thr Leu Ala Gly Asp Val His Ile Val Arg Gly Asp
 65 70 75 80

Phe Asp Glu Asn Leu Asn Tyr Pro Glu Gln Lys Val Val Thr Val Gly

916

	85		90		95
Gln Phe Lys Ile Gly Leu Ile His Gly His Gln Val Ile Pro Trp Gly					
	100		105		110
Asp Met Ala Ser Leu Ala Leu Leu Gln Arg Gln Phe Asp Val Asp Ile					
	115		120		125
Leu Ile Xaa Gly His Thr His Lys Phe Glu Ala Xaa Glu His Glu Asn					
	130		135		140
Lys Phe Tyr Ile Asn Pro Gly Ser Ala Thr Gly Ala Tyr Asn Ala Leu					
	145		150		155
					160
Glu Thr Asn Ile Ile Xaa Ser Leu Cys					
	165				

<210> 956
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 956
 Ser Pro Tyr Cys Gly Leu Gln Val Met Leu Phe Leu Leu His His Thr
 1 5 10 15
 Leu Trp Cys Leu Leu Pro Cys Ala Ser Ser Leu Arg Leu Ile Lys Lys
 20 25 30
 Val Ser Arg Leu Leu Gln Leu
 35

<210> 957
 <211> 219
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

917

<400> 957

Gln Gly His Cys Gly Cys Xaa Leu Xaa Ser Leu Leu Ala Asn Gly His
 1 5 10 15

Asp Leu Ala Ala Ala Met Ala Val Asp Lys Ser Asn Pro Thr Ser Lys
 20 25 30

His Lys Ser Gly Ala Val Ala Ser Leu Leu Ser Lys Ala Glu Arg Ala
 35 40 45

Thr Glu Leu Ala Ala Glu Gly Gln Leu Thr Leu Gln Gln Phe Ala Gln
 50 55 60

Ser Thr Glu Met Leu Lys Arg Val Val Gln Glu His Leu Pro Leu Met
 65 70 75 80

Ser Glu Ala Gly Ala Gly Leu Pro Asp Met Glu Ala Val Ala Gly Ala
 85 90 95

Glu Ala Leu Asn Gly Gln Ser Asp Phe Pro Tyr Leu Gly Ala Phe Pro
 100 105 110

Ile Asn Pro Gly Leu Phe Ile Met Thr Pro Ala Gly Val Phe Leu Ala
 115 120 125

Glu Ser Ala Leu His Met Ala Gly Leu Ala Glu Tyr Pro Met Gln Gly
 130 135 140

Glu Leu Ala Ser Ala Ile Ser Ser Gly Lys Lys Lys Arg Lys Arg Cys
 145 150 155 160

Gly Met Cys Ala Pro Cys Arg Arg Arg Ile Asn Cys Glu Gln Cys Ser
 165 170 175

Ser Cys Arg Asn Arg Lys Thr Gly His Gln Ile Cys Lys Phe Arg Lys
 180 185 190

Cys Glu Glu Leu Lys Lys Lys Pro Ser Ala Ala Leu Glu Lys Val Met
 195 200 205

Leu Pro Thr Gly Ala Ala Phe Arg Trp Phe Gln
 210 215

<210> 958

<211> 259

<212> PRT

<213> Homo sapiens

<220>

918

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 958

```

Leu Pro Gln Asn Ala Val Leu Glu Ala Asp Phe Ala Lys Arg Gly Tyr
 1             5             10             15

Lys Leu Pro Lys Xaa Arg Lys Thr Gly Thr Thr Ile Ala Gly Val Val
          20             25             30

Tyr Lys Asp Gly Ile Val Leu Gly Ala Asp Thr Arg Ala Thr Glu Gly
          35             40             45

Met Val Val Ala Asp Lys Asn Cys Ser Lys Ile His Phe Ile Ser Pro
          50             55             60

Asn Ile Tyr Cys Cys Gly Ala Gly Thr Xaa Ala Asp Thr Asp Met Thr
          65             70             75             80

Thr Gln Leu Ile Ser Ser Asn Leu Glu Leu His Ser Leu Ser Thr Gly
          85             90             95

Arg Leu Pro Arg Val Val Thr Ala Asn Arg Met Leu Lys Gln Met Leu
          100            105            110

Phe Arg Tyr Gln Gly Tyr Ile Gly Ala Ala Leu Val Leu Gly Gly Val
          115            120            125

Asp Val Thr Gly Pro His Leu Tyr Ser Ile Tyr Pro His Gly Ser Thr
          130            135            140

Asp Lys Leu Pro Tyr Val Thr Met Gly Ser Gly Ser Leu Ala Ala Met
          145            150            155            160

Ala Val Phe Glu Asp Lys Phe Arg Pro Asp Met Glu Glu Glu Glu Ala
          165            170            175

Lys Asn Leu Val Ser Glu Ala Ile Ala Ala Gly Ile Phe Asn Asp Leu
          180            185            190

Gly Ser Gly Ser Asn Ile Asp Leu Cys Val Ile Ser Lys Asn Lys Leu
          195            200            205

Asp Phe Leu Arg Pro Tyr Thr Val Pro Asn Lys Lys Gly Thr Arg Leu
          210            215            220

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919

Gly Arg Tyr Arg Cys Glu Lys Gly Thr Thr Ala Val Leu Thr Glu Lys
 225 230 235 240

Ile Thr Pro Leu Glu Ile Glu Val Leu Glu Glu Thr Val Gln Thr Met
 245 250 255

Asp Thr Ser

<210> 959

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 959

Phe Trp Ser Ala Ala Lys Phe Asp Phe Thr Ser His Thr Pro Phe Leu
 1 5 10 15

Pro Leu Glu Met Gln Phe Arg Gln Arg Pro Cys Gly Glu Ser Cys Asn
 20 25 30

Ile Lys Phe Xaa Phe Arg Arg Ser Xaa Pro Gln Thr Ser Glu Pro Leu
 35 40 45

Ala Val Leu Pro Xaa Asn Lys Asn Glu Leu Glu Lys Lys Val Ala Gln
 50 55 60

Leu Gln Arg Ser Lys Ser Ser Tyr Phe Pro Thr
 65 70 75

<210> 960

920

<211> 128

<212> PRT

<213> Homo sapiens

<400> 960

Gln Ser Arg Gly Leu Arg Leu Leu Gly Pro Gly Asp Gly Ala Gly Met
 1 5 10 15

Thr Pro Gly Val Val His Ala Ser Pro Pro Gln Ser Gln Arg Val Pro
 20 25 30

Arg Gln Ala Pro Cys Glu Trp Ala Ile Arg Asn Ile Gly Gln Lys Pro
 35 40 45

Lys Glu Pro Asn Cys His Asn Cys Gly Thr His Ile Gly Leu Arg Ser
 50 55 60

Lys Thr Leu Arg Gly Thr Pro Asn Tyr Leu Pro Ile Arg Gln Asp Thr
 65 70 75 80

His Pro Pro Ser Val Ile Phe Cys Leu Ala Gly Val Gly Val Pro Gly
 85 90 95

Gly Thr Cys Arg Pro Ala Pro Cys Val Pro Arg Phe Ala Ala Leu Pro
 100 105 110

Trp Ala Thr Asn His Pro Gly Pro Gly Cys Leu Ser Asp Leu Arg Ala
 115 120 125

<210> 961

<211> 564

<212> PRT

<213> Homo sapiens

<400> 961

Lys Met Lys Ser Val Lys Ile Ala Phe Ala Val Thr Leu Glu Thr Val
 1 5 10 15

Leu Ala Gly His Glu Asn Trp Val Asn Ala Val His Trp Gln Pro Val
 20 25 30

Phe Tyr Lys Asp Gly Val Leu Gln Gln Pro Val Arg Leu Leu Ser Ala
 35 40 45

Ser Met Asp Lys Thr Met Ile Leu Trp Ala Pro Asp Glu Glu Ser Gly
 50 55 60

Val	Trp	Leu	Glu	Gln	Val	Arg	Val	Gly	Glu	Val	Gly	Gly	Asn	Thr	Leu	65	70	75	80
Gly	Phe	Tyr	Asp	Cys	Gln	Phe	Asn	Glu	Asp	Gly	Ser	Met	Ile	Ile	Ala	85	90	95	
His	Ala	Phe	His	Gly	Ala	Leu	His	Leu	Trp	Lys	Gln	Asn	Thr	Val	Asn	100	105	110	
Pro	Arg	Glu	Trp	Thr	Pro	Glu	Ile	Val	Ile	Ser	Gly	His	Phe	Asp	Gly	115	120	125	
Val	Gln	Asp	Leu	Val	Trp	Asp	Pro	Glu	Gly	Glu	Phe	Ile	Ile	Thr	Val	130	135	140	
Gly	Thr	Asp	Gln	Thr	Thr	Arg	Leu	Phe	Ala	Pro	Trp	Lys	Arg	Lys	Asp	145	150	155	160
Gln	Ser	Gln	Val	Thr	Trp	His	Glu	Ile	Ala	Arg	Pro	Gln	Ile	His	Gly	165	170	175	
Tyr	Asp	Leu	Lys	Cys	Leu	Ala	Met	Ile	Asn	Arg	Phe	Gln	Phe	Val	Ser	180	185	190	
Gly	Ala	Asp	Glu	Lys	Val	Leu	Arg	Val	Phe	Ser	Ala	Pro	Arg	Asn	Phe	195	200	205	
Val	Glu	Asn	Phe	Cys	Ala	Ile	Thr	Gly	Gln	Ser	Leu	Asn	His	Val	Leu	210	215	220	
Cys	Asn	Gln	Asp	Ser	Asp	Leu	Pro	Glu	Gly	Ala	Thr	Val	Pro	Ala	Leu	225	230	235	240
Gly	Leu	Ser	Asn	Lys	Ala	Val	Phe	Gln	Gly	Asp	Ile	Ala	Ser	Gln	Pro	245	250	255	
Ser	Asp	Glu	Glu	Glu	Leu	Leu	Thr	Ser	Thr	Gly	Phe	Glu	Tyr	Gln	Gln	260	265	270	
Val	Ala	Phe	Gln	Pro	Ser	Ile	Leu	Thr	Glu	Pro	Pro	Thr	Glu	Asp	His	275	280	285	
Leu	Leu	Gln	Asn	Thr	Leu	Trp	Pro	Glu	Val	Gln	Lys	Leu	Tyr	Gly	His	290	295	300	
Gly	Tyr	Glu	Ile	Phe	Cys	Val	Thr	Cys	Asn	Ser	Ser	Lys	Thr	Leu	Leu	305	310	315	320
Ala	Ser	Ala	Cys	Lys	Ala	Ala	Lys	Lys	Glu	His	Ala	Ala	Ile	Ile	Leu	325	330	335	

922

Trp Asn Thr Thr Ser Trp Lys Gln Val Gln Asn Leu Val Phe His Ser
 340 345 350
 Leu Thr Val Thr Gln Met Ala Phe Ser Pro Asn Glu Lys Phe Leu Leu
 355 360 365
 Ala Val Ser Arg Asp Arg Thr Trp Ser Leu Trp Lys Lys Gln Asp Thr
 370 375 380
 Ile Ser Pro Glu Phe Glu Pro Val Phe Ser Leu Phe Ala Phe Thr Asn
 385 390 395 400
 Lys Ile Thr Ser Val His Ser Arg Ile Ile Trp Ser Cys Asp Trp Ser
 405 410 415
 Pro Asp Ser Lys Tyr Phe Phe Thr Gly Ser Arg Asp Lys Lys Val Val
 420 425 430
 Val Trp Gly Glu Cys Asp Ser Thr Asp Asp Cys Ile Glu His Asn Ile
 435 440 445
 Gly Pro Cys Ser Ser Val Leu Asp Val Gly Gly Ala Val Thr Ala Val
 450 455 460
 Ser Val Cys Pro Val Leu His Pro Ser Gln Arg Tyr Val Val Ala Val
 465 470 475 480
 Gly Leu Glu Cys Gly Lys Ile Cys Leu Tyr Thr Trp Lys Lys Thr Asp
 485 490 495
 Gln Val Pro Glu Ile Asn Asp Trp Thr His Cys Val Glu Thr Ser Gln
 500 505 510
 Ser Gln Ser His Thr Leu Ala Ile Arg Lys Leu Cys Trp Lys Asn Cys
 515 520 525
 Ser Gly Lys Thr Glu Gln Lys Glu Ala Glu Gly Ala Glu Trp Leu His
 530 535 540
 Phe Ala Ser Cys Gly Glu Asp His Thr Val Lys Ile His Arg Val Asn
 545 550 555 560
 Lys Cys Ala Leu

<210> 962

<211> 43

<212> PRT

923

<213> Homo sapiens

<400> 962

Phe Lys Tyr Val Lys Cys Gly Ser Phe Thr Pro His His Ser Glu His
 1 5 10 15

Thr Gly Glu Met Cys Phe Phe Gly Lys Leu Lys Gly Ala Ser Ser Leu
 20 25 30

Ile Gln Arg Asn Ile Ser His Val Cys Ser Phe
 35 40

<210> 963

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 963

Glu Ser Arg Val Asp Pro Arg Val Arg Glu Arg Ser Ala Arg Thr Ala
 1 5 10 15

Gly Ala Thr Val Gly Pro Ala Ala Val Met Ser Val Leu Arg Pro Leu
 20 25 30

Asp Lys Leu Pro Gly Leu Asn Thr Ala Thr Ile Leu Leu Val Gly Thr
 35 40 45

Glu Asp Ala Leu Leu Gln Gln Leu Ala Asp Ser Met Leu Lys Glu Asp
 50 55 60

Cys Ala Ser Glu Leu Lys Val His Leu Ala Lys Ser Leu Pro Leu Pro
 65 70 75 80

Ser Ser Val Asn Arg Pro Arg Ile Asp Leu Ile Val Phe Val Val Asn
 85 90 95

Leu His Ser Lys Tyr Ser Leu Gln Asn Thr Glu Glu Ser Leu Arg His
 100 105 110

Val Asp Ala Ser Phe Phe Leu Gly Lys Val Cys Phe Leu Ala Thr Gly
 115 120 125

Gly Gly Xaa Leu
 130

924

<210> 964
 <211> 175
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 964
 His Glu Arg Ser Cys Cys Asp Ala Arg Ser Glu Ala Xaa Gln Gly Arg
 1 5 10 15
 Gly Arg Val Gly Ala Gly Ala Gly Ala Ala Trp Ser Ser Cys Gly Val
 20 25 30
 Ser Gly Pro Gly Arg Gly Met Gly Val Leu Ala Ala Ala Arg Cys
 35 40 45
 Leu Val Arg Gly Ala Asp Arg Met Ser Lys Trp Thr Ser Lys Arg Gly
 50 55 60
 Pro Arg Ser Phe Arg Gly Arg Xaa Gly Arg Gly Ala Lys Gly Ile Gly
 65 70 75 80
 Phe Leu Thr Ser Gly Trp Arg Phe Val Gln Ile Lys Glu Met Val Pro
 85 90 95
 Glu Phe Val Val Pro Asp Leu Thr Gly Phe Lys Leu Lys Pro Tyr Val
 100 105 110
 Ser Tyr Leu Ala Pro Glu Ser Glu Glu Thr Pro Leu Thr Ala Ala Gln
 115 120 125
 Leu Phe Ser Glu Ala Val Ala Pro Ala Ile Glu Lys Asp Phe Lys Asp
 130 135 140
 Gly Thr Phe Asp Pro Asp Asn Leu Glu Lys Tyr Gly Phe Glu Pro Thr
 145 150 155 160
 Gln Glu Gly Lys Leu Phe Gln Leu Tyr Pro Arg Asn Phe Leu Arg
 165 170 175

925

<210> 965

<211> 363

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (356)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 965

Leu Leu Arg Arg Leu Arg Thr Ala Val Pro Gly Ser Leu Glu Ala Gln
 1 5 10 15

Lys Arg Lys Pro Ser Pro Gly Pro Gly Ser Leu Asp Leu Val Ser Leu
 20 25 30

Gly Ser Gly Asn Ser Gly Ser Gln Arg Thr Val Leu Ile Met Asp Lys
 35 40 45

Gln Asn Ser Gln Met Asn Ala Ser His Pro Glu Thr Asn Leu Pro Val
 50 55 60

Gly Tyr Pro Pro Gln Tyr Pro Pro Thr Ala Phe Gln Gly Pro Pro Gly
 65 70 75 80

Tyr Ser Gly Tyr Pro Gly Pro Gln Val Ser Tyr Pro Pro Pro Pro Ala
 85 90 95

Gly His Ser Gly Pro Gly Pro Ala Gly Phe Pro Val Pro Asn Gln Pro
 100 105 110

Val Tyr Asn Gln Pro Val Tyr Asn Gln Pro Val Gly Ala Ala Gly Val
 115 120 125

Pro Trp Met Pro Ala Pro Gln Pro Pro Leu Asn Cys Pro Pro Gly Leu
 130 135 140

Glu Tyr Leu Ser Gln Ile Asp Gln Ile Leu Ile His Gln Gln Ile Glu
 145 150 155 160

Leu Leu Glu Val Leu Thr Gly Phe Glu Thr Asn Asn Lys Tyr Glu Ile
 165 170 175

Lys Asn Ser Phe Gly Gln Arg Val Tyr Phe Ala Ala Glu Asp Thr Asp
 180 185 190

Cys Cys Thr Arg Asn Cys Cys Gly Pro Ser Arg Pro Phe Thr Leu Arg

926

195	200	205
Ile Ile Asp Asn Met Gly Gln Glu Val Ile Thr Leu Glu Arg Pro Leu		
210	215	220
Arg Cys Ser Ser Cys Cys Cys Pro Cys Cys Leu Gln Glu Ile Glu Ile		
225	230	235 240
Gln Ala Pro Pro Gly Val Pro Ile Gly Tyr Val Ile Gln Thr Trp His		
245	250	255
Pro Cys Leu Pro Lys Phe Thr Ile Gln Asn Glu Lys Arg Glu Asp Val		
260	265	270
Leu Lys Ile Ser Gly Pro Cys Val Val Cys Ser Cys Cys Gly Asp Val		
275	280	285
Asp Phe Glu Ile Lys Ser Leu Asp Glu Gln Cys Val Val Gly Lys Ile		
290	295	300
Ser Lys His Trp Thr Gly Ile Leu Arg Glu Ala Phe Thr Asp Ala Asp		
305	310	315 320
Asn Phe Gly Ile Gln Phe Pro Leu Asp Leu Asp Val Lys Met Lys Ala		
325	330	335
Val Met Ile Gly Ala Cys Phe Leu Ile Asp Phe Met Phe Phe Glu Ser		
340	345	350
Thr Gly Ser Xaa Glu Gln Lys Ser Gly Val Trp		
355	360	

<210> 966

<211> 131

<212> PRT

<213> Homo sapiens

<400> 966

Ala Glu Val His Thr Arg Lys Gln Gly Pro Glu Ala Glu Pro Ala Ala
1 5 10 15
Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro Glu Glu
20 25 30
Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys Glu Pro
35 40 45
Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val Lys Glu
50 55 60

927

Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr Gly Ala
 65 70 75 80
 Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu Glu Asn
 85 90 95
 Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg Arg Ala
 100 105 110
 Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro Pro Cys
 115 120 125
 Val Ile Leu
 130

<210> 967

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (306)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 967

Pro Thr Pro Ala Ser His Ser Pro Ser Pro Ser Leu Pro Ala Leu Pro
 1 5 10 15

Pro Ser Pro Pro His Arg Pro Asp Ser Pro Leu Phe Asn Ser Arg Cys
 20 25 30

Ser Ser Pro Leu Gln Leu Asn Leu Leu Gln Leu Glu Glu Leu Pro Arg
 35 40 45

Ala Glu Gly Ala Ala Val Ala Gly Gly Pro Gly Ser Ser Ala Gly Pro
 50 55 60

Pro Pro Pro Xaa Ala Glu Ala Ala Glu Pro Glu Ala Arg Leu Ala Glu
 65 70 75 80

Val Thr Glu Ser Ser Asn Gln Asp Ala Leu Ser Gly Ser Ser Asp Leu
 85 90 95

Leu Glu Leu Leu Leu Gln Glu Asp Ser Arg Ser Gly Thr Gly Ser Ala
 100 105 110
 Ala Ser Gly Ser Leu Gly Ser Gly Leu Gly Ser Gly Ser Gly Ser Gly
 115 120 125
 Ser His Glu Gly Gly Ser Thr Ser Ala Ser Ile Thr Arg Ser Ser Gln
 130 135 140
 Ser Ser His Thr Ser Lys Tyr Phe Gly Ser Ile Asp Ser Ser Glu Ala
 145 150 155 160
 Glu Ala Gly Ala Ala Arg Gly Gly Ala Glu Pro Gly Asp Gln Val Ile
 165 170 175
 Lys Tyr Val Leu Gln Asp Pro Ile Trp Leu Leu Met Ala Asn Ala Asp
 180 185 190
 Gln Arg Val Met Met Thr Tyr Gln Val Pro Ser Arg Asp Met Thr Ser
 195 200 205
 Val Leu Lys Gln Asp Arg Glu Arg Leu Arg Ala Met Gln Lys Gln Gln
 210 215 220
 Pro Arg Phe Ser Glu Asp Gln Arg Arg Glu Leu Gly Ala Val His Ser
 225 230 235 240
 Trp Val Arg Lys Gly Gln Leu Pro Arg Ala Leu Asp Val Met Ala Cys
 245 250 255
 Val Asp Cys Gly Ser Ser Thr Gln Asp Pro Gly His Pro Asp Asp Pro
 260 265 270
 Leu Phe Ser Glu Leu Asp Gly Leu Gly Leu Glu Pro Met Glu Glu Gly
 275 280 285
 Gly Gly Glu Gln Gly Ser Ser Gly Gly Gly Ser Gly Glu Gly Glu Gly
 290 295 300
 Cys Xaa Glu Ala Gln Gly Gly Ala Lys Ala Ser Ser Ser Gln Asp Leu
 305 310 315 320
 Ala Met Glu Glu Glu Glu Gly Arg Ser Ser Ser Ser Pro Ala Leu
 325 330 335
 Pro Thr Ala Gly Asn Cys Thr Ser
 340

929

<210> 968

<211> 67

<212> PRT

<213> Homo sapiens

<400> 968

Arg	Cys	Ser	Ser	Phe	Phe	Leu	Ser	Leu	Leu	Val	Lys	Ile	Thr	Asn	Ile
1				5					10					15	

Trp	Glu	Gly	Phe	Lys	Asp	Ala	Cys	Tyr	Gly	Ala	Asn	Val	Leu	Ser	Leu
			20					25					30		

Leu	Asn	Ser	Arg	Ser	Glu	Leu	Leu	Thr	Cys	Ile	Gln	Asn	Ile	Asn	Ala
		35					40					45			

Gln	Asn	Leu	Tyr	Met	Ser	Pro	Ile	Arg	Lys	Ile	His	Trp	His	Ala	Thr
	50					55					60				

Gly	Asp	Ser
65		

<210> 969

<211> 325

<212> PRT

<213> Homo sapiens

<400> 969

Leu	Asn	Leu	Arg	Ser	Pro	His	Ile	Cys	Phe	Arg	Ser	Ser	Lys	Pro	Ser
1				5					10					15	

Trp	Ala	Asp	Gln	Val	Glu	Glu	Glu	Gly	Glu	Asp	Asp	Lys	Cys	Val	Thr
			20					25					30		

Ser	Glu	Leu	Leu	Lys	Gly	Ile	Pro	Leu	Ala	Thr	Gly	Asp	Thr	Ser	Pro
		35					40					45			

Glu	Pro	Glu	Leu	Leu	Pro	Gly	Ala	Pro	Leu	Pro	Pro	Pro	Lys	Glu	Val
	50					55					60				

Ile	Asn	Gly	Asn	Ile	Lys	Thr	Val	Thr	Glu	Tyr	Lys	Ile	Asp	Glu	Asp
65					70					75				80	

Gly	Lys	Lys	Phe	Lys	Ile	Val	Arg	Thr	Phe	Arg	Ile	Glu	Thr	Arg	Lys
			85						90					95	

Ala	Ser	Lys	Ala	Val	Ala	Arg	Arg	Lys	Asn	Trp	Lys	Lys	Phe	Gly	Asn
			100					105					110		

Ser	Glu	Phe	Asp	Pro	Pro	Gly	Pro	Asn	Val	Ala	Thr	Thr	Thr	Val	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

930

115 120 125
 Asp Asp Val Ser Met Thr Phe Ile Thr Ser Lys Glu Asp Leu Asn Cys
 130 135 140
 Gln Glu Glu Glu Asp Pro Met Asn Lys Leu Lys Gly Gln Lys Ile Val
 145 150 155 160
 Ser Cys Arg Ile Cys Lys Gly Asp His Trp Thr Thr Arg Cys Pro Tyr
 165 170 175
 Lys Asp Thr Leu Gly Pro Met Gln Lys Glu Leu Ala Glu Gln Leu Gly
 180 185 190
 Leu Ser Thr Gly Glu Lys Glu Lys Leu Pro Gly Glu Leu Glu Pro Val
 195 200 205
 Gln Ala Thr Gln Asn Lys Thr Gly Lys Tyr Val Pro Pro Ser Leu Arg
 210 215 220
 Asp Gly Ala Ser Arg Arg Gly Glu Ser Met Gln Pro Asn Arg Arg Ala
 225 230 235 240
 Asp Asp Asn Ala Thr Ile Arg Val Thr Asn Leu Ser Glu Asp Thr Arg
 245 250 255
 Glu Thr Asp Leu Gln Glu Leu Phe Arg Pro Phe Gly Ser Ile Ser Arg
 260 265 270
 Ile Tyr Leu Ala Lys Asp Lys Thr Thr Gly Gln Ser Lys Gly Phe Ala
 275 280 285
 Phe Ile Ser Phe His Arg Arg Glu Asp Ala Ala Arg Ala Ile Ala Gly
 290 295 300
 Val Ser Gly Phe Gly Tyr Asp His Leu Ile Leu Asn Val Glu Trp Ala
 305 310 315 320
 Lys Pro Ser Thr Asn
 325

<210> 970

<211> 357

<212> PRT

<213> Homo sapiens

<400> 970

Val Arg Val Lys Met Ala Ala Ala Glu Ala Ala Asn Cys Ile Met Glu
 1 5 10 15

Val	Ser	Cys	Gly	Gln	Ala	Glu	Ser	Ser	Glu	Lys	Pro	Asn	Ala	Glu	Asp	20	25	30	
Met	Thr	Ser	Lys	Asp	Tyr	Tyr	Phe	Asp	Ser	Tyr	Ala	His	Phe	Gly	Ile	35	40	45	
His	Glu	Glu	Met	Leu	Lys	Asp	Glu	Val	Arg	Thr	Leu	Thr	Tyr	Arg	Asn	50	55	60	
Ser	Met	Phe	His	Asn	Arg	His	Leu	Phe	Lys	Asp	Lys	Val	Val	Leu	Asp	65	70	75	80
Val	Gly	Ser	Gly	Thr	Gly	Ile	Leu	Cys	Met	Phe	Ala	Ala	Lys	Ala	Gly	85	90	95	
Ala	Arg	Lys	Val	Ile	Gly	Ile	Glu	Cys	Ser	Ser	Ile	Ser	Asp	Tyr	Ala	100	105	110	
Val	Lys	Ile	Val	Lys	Ala	Asn	Lys	Leu	Asp	His	Val	Val	Thr	Ile	Ile	115	120	125	
Lys	Gly	Lys	Val	Glu	Glu	Val	Glu	Leu	Pro	Val	Glu	Lys	Val	Asp	Ile	130	135	140	
Ile	Ile	Ser	Glu	Trp	Met	Gly	Tyr	Cys	Leu	Phe	Tyr	Glu	Ser	Met	Leu	145	150	155	160
Asn	Thr	Val	Leu	Tyr	Ala	Arg	Asp	Lys	Trp	Leu	Ala	Pro	Asp	Gly	Leu	165	170	175	
Ile	Phe	Pro	Asp	Arg	Ala	Thr	Leu	Tyr	Val	Thr	Ala	Ile	Glu	Asp	Arg	180	185	190	
Gln	Tyr	Lys	Asp	Tyr	Lys	Ile	His	Trp	Trp	Glu	Asn	Val	Tyr	Gly	Phe	195	200	205	
Asp	Met	Ser	Cys	Ile	Lys	Asp	Val	Ala	Ile	Lys	Glu	Pro	Leu	Val	Asp	210	215	220	
Val	Val	Asp	Pro	Lys	Gln	Leu	Val	Thr	Asn	Ala	Cys	Leu	Ile	Lys	Glu	225	230	235	240
Val	Asp	Ile	Tyr	Thr	Val	Lys	Val	Glu	Asp	Leu	Thr	Phe	Thr	Ser	Pro	245	250	255	
Phe	Cys	Leu	Gln	Val	Lys	Arg	Asn	Asp	Tyr	Val	His	Ala	Leu	Val	Ala	260	265	270	
Tyr	Phe	Asn	Ile	Glu	Phe	Thr	Arg	Cys	His	Lys	Arg	Thr	Gly	Phe	Ser	275	280	285	

932

Thr Ser Pro Glu Ser Pro Tyr Thr His Trp Lys Gln Thr Val Phe Tyr
 290 295 300
 Met Glu Asp Tyr Leu Thr Val Lys Thr Gly Glu Glu Ile Phe Gly Thr
 305 310 315 320
 Ile Gly Met Arg Pro Asn Ala Lys Asn Asn Arg Asp Leu Asp Phe Thr
 325 330 335
 Ile Asp Leu Asp Phe Lys Gly Gln Leu Cys Glu Leu Ser Cys Ser Thr
 340 345 350
 Asp Tyr Arg Met Arg
 355

<210> 971

<211> 176

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 971

Gly Val Pro Arg Arg Ala Tyr Gln Ala Xaa Xaa Leu Arg Arg Val Asp
 1 5 10 15

Asp Phe Lys Lys Ala Phe Ser Lys Glu Lys Met Glu Lys Thr Lys Val
 20 25 30

Arg Thr Arg Glu Asn Leu Glu Lys Thr Arg Leu Lys Thr Lys Glu Asn
 35 40 45

Leu Glu Lys Thr Arg His Thr Leu Glu Lys Arg Met Asn Lys Leu Gly
 50 55 60

933

Thr Arg Leu Val Pro Ala Glu Arg Arg Glu Lys Leu Lys Thr Ser Arg
 65 70 75 80
 Asp Lys Leu Arg Lys Ser Phe Thr Pro Asp His Val Val Tyr Ala Arg
 85 90 95
 Ser Lys Thr Ala Val Tyr Lys Val Pro Pro Phe Thr Phe His Val Lys
 100 105 110
 Lys Ile Arg Glu Gly Gln Val Glu Val Leu Lys Ala Thr Glu Met Val
 115 120 125
 Glu Val Gly Ala Asp Asp Asp Glu Gly Gly Ala Glu Arg Gly Glu Ala
 130 135 140
 Gly Asp Leu Arg Arg Gly Ser Ser Pro Asp Val His Ala Leu Leu Glu
 145 150 155 160
 Ile Thr Glu Glu Ser Asp Ala Val Leu Val Asp Lys Ser Asp Ser Xaa
 165 170 175

<210> 972
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 972
 Gly Lys Ala Arg Arg Arg Ala Ala Lys Leu Gln Ser Ser Gln Glu Pro
 1 5 10 15
 Glu Ala Pro Pro Pro Arg Asp Val Ala Leu Leu Gln Gly Arg Ala Asn
 20 25 30
 Asp Leu Val Lys Tyr Leu Leu Ala Lys Asp Gln Thr Lys Ile Pro Ile
 35 40 45
 Lys Arg Ser Asp Met Leu Lys Asp Ile Ile Lys Glu Tyr Thr Asp Val
 50 55 60
 Tyr Pro Glu Ile Ile Glu Arg Ala Gly Tyr Ser Leu Glu Lys Val Phe
 65 70 75 80
 Gly Ile Gln Leu Lys Glu Ile Asp Lys Asn Asp His Leu Tyr Ile Leu
 85 90 95
 Leu Ser Thr Leu Glu Pro Thr Asp Ala Gly Ile Leu Gly Thr Thr Lys

934

100	105	110
Asp Ser Pro Lys Leu Gly Leu Leu Met Val Leu Leu Ser Ile Ile Phe		
115	120	125
Met Asn Gly Asn Arg Ser Ser Glu Ala Val Ile Trp Glu Val Leu Arg		
130	135	140
Lys Leu Gly Leu Arg Leu Gly Tyr Ile Ile His Ser Leu Gly Thr		
145	150	155

<210> 973

<211> 233

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 973

Arg Ala Xaa Lys Ala Ala Pro Arg Arg Ala Leu Ala Arg Leu Val Leu
1 5 10 15

Ala Trp Cys Arg Trp Leu Val Ser Ala Thr Cys Val Gly Thr Ala Asp
20 25 30

Arg Lys Met Ser Ser Gly Asn Ala Lys Ile Gly His Pro Ala Pro Asn
35 40 45

Phe Lys Ala Thr Ala Val Met Pro Asp Gly Gln Phe Lys Asp Ile Ser
50 55 60

Leu Ser Asp Tyr Lys Gly Lys Tyr Val Val Phe Phe Tyr Pro Leu
65 70 75 80

Asp Phe Thr Phe Val Cys Pro Thr Glu Ile Ile Ala Phe Ser Asp Arg
85 90 95

Ala Glu Glu Phe Lys Lys Leu Asn Cys Gln Val Ile Gly Ala Ser Val
100 105 110

Asp Ser His Phe Cys His Leu Ala Trp Val Asn Thr Pro Lys Lys Gln
115 120 125

Gly Gly Leu Gly Pro Met Asn Ile Pro Leu Val Ser Asp Pro Lys Arg
130 135 140

935

Thr Ile Ala Gln Asp Tyr Gly Val Leu Lys Ala Asp Glu Gly Ile Ser
 145 150 155 160

Phe Arg Gly Leu Phe Ile Ile Asp Asp Lys Gly Ile Leu Arg Gln Ile
 165 170 175

Thr Val Asn Asp Leu Pro Val Gly Arg Ser Val Asp Glu Thr Leu Arg
 180 185 190

Leu Val Gln Ala Phe Gln Phe Thr Asp Lys His Gly Glu Val Cys Pro
 195 200 205

Ala Gly Trp Lys Pro Gly Ser Asp Thr Ile Lys Pro Asp Val Gln Lys
 210 215 220

Ser Lys Glu Tyr Phe Ser Lys Gln Lys
 225 230

<210> 974

<211> 174

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 974

Ser Trp Asp Arg Arg Leu Met Gln Asp Asp Asn Arg Gly Leu Gly Gln
 1 5 10 15

Gly Leu Lys Asp Asn Lys Arg Thr Cys Asn Arg Phe Arg Leu Leu Leu
 20 25 30

Glu Arg Arg Thr Xaa Gly Ser Glu Val Gln Asp Ser His Ser Thr Ser
 35 40 45

Tyr Pro Ser Leu Leu Ser His Leu Thr Ser Met Tyr Leu Asn Ala Pro
 50 55 60

Ala Leu Ala Leu Pro Val Ala Arg Met Gln Leu Pro Gly Pro Gly Leu
 65 70 75 80

Arg Ser Phe His Pro Leu Ala Ser Ser Leu Pro Cys Asp Phe His Leu
 85 90 95

Leu Asn Leu Arg Thr Leu Gln Ala Glu Glu Asp Thr Leu Pro Ser Ala
 100 105 110

936

Glu Thr Ala Leu Ile Leu His Arg Lys Val Leu Thr Ala Ala Trp Arg
 115 120 125

Gln Glu Leu Gly Leu Gln Leu His His Lys Pro Arg Gln Gly Ser Pro
 130 135 140

Gly Gln Pro Phe Pro Trp Pro Gly Cys Gly Ile Pro Ser Ala Asn Leu
 145 150 155 160

Leu Asp Val Thr Val Pro Ser Gly Leu Pro Val Gln Gln His
 165 170

<210> 975

<211> 380

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 975

Arg Pro Glu Val Arg His Ser Arg Glu Ala Pro Glu Ser Arg Arg Trp
 1 5 10 15

Ala Val Trp Arg Ser Leu Glu Ser Leu Pro Arg His Gln Leu Leu Cys
 20 25 30

Leu Pro Val Gly Ala Pro Pro Ala Pro Ala Met Leu Ser Ala Leu Ala
 35 40 45

Arg Pro Ala Ser Ala Ala Leu Arg Arg Ser Phe Ser Thr Ser Ala Gln
 50 55 60

Asn Asn Ala Lys Val Ala Val Leu Gly Ala Ser Gly Gly Ile Gly Gln
 65 70 75 80

Pro Leu Ser Leu Leu Leu Lys Asn Ser Pro Leu Val Ser Arg Leu Thr
 85 90 95

Leu Tyr Asp Ile Ala His Thr Pro Gly Val Ala Ala Asp Leu Ser His
 100 105 110

Ile Glu Thr Lys Ala Ala Val Lys Gly Tyr Leu Gly Pro Glu Gln Leu
 115 120 125

Pro Asp Cys Leu Lys Xaa Cys Asp Val Val Val Ile Pro Ala Gly Val

937

130		135		140
Pro Arg Lys Pro Gly Met Thr Arg Asp Asp Leu Phe Asn Thr Asn Ala				
145		150		155 160
Thr Ile Val Ala Thr Leu Thr Ala Ala Cys Ala Gln His Cys Pro Glu				
	165		170	175
Ala Met Ile Cys Val Ile Ala Asn Pro Val Asn Ser Thr Ile Pro Ile				
	180		185	190
Thr Ala Glu Val Phe Lys Lys His Gly Val Tyr Asn Pro Asn Lys Ile				
	195		200	205
Phe Gly Val Thr Thr Leu Asp Ile Val Arg Ala Asn Thr Phe Val Ala				
	210		215	220
Glu Leu Lys Gly Leu Asp Pro Ala Arg Val Asn Val Pro Val Ile Gly				
	225		230	235 240
Gly His Ala Gly Lys Thr Ile Ile Pro Leu Ile Ser Gln Cys Thr Pro				
	245		250	255
Lys Val Asp Phe Pro Gln Asp Gln Leu Thr Ala Leu Thr Gly Arg Ile				
	260		265	270
Gln Glu Ala Gly Thr Glu Val Val Lys Ala Lys Ala Gly Ala Gly Ser				
	275		280	285
Ala Thr Leu Ser Met Ala Tyr Ala Gly Ala Arg Phe Val Phe Ser Leu				
	290		295	300
Val Asp Ala Met Asn Gly Lys Glu Gly Val Val Glu Cys Ser Phe Val				
	305		310	315 320
Lys Ser Gln Glu Thr Glu Cys Thr Tyr Phe Ser Thr Pro Leu Leu Leu				
	325		330	335
Gly Lys Lys Gly Ile Glu Lys Asn Leu Gly Ile Gly Lys Val Ser Ser				
	340		345	350
Phe Glu Glu Lys Met Ile Ser Asp Ala Ile Pro Glu Leu Lys Ala Ser				
	355		360	365
Ile Lys Lys Gly Glu Asp Phe Val Lys Thr Leu Lys				
	370		375	380

<210> 976

<211> 269

<213> Homo sapiens

<400> 976

Ala Ala Leu Ser Gln Ile Thr Ile Ala Thr Pro Pro Ala Val Lys Gln
1 5 10 15

Thr Ile Ser Asn Ile Ser Gly Phe Asn Glu Thr Cys Leu Arg Trp Arg
20 25 30

Ser Ile Lys Thr Ala Asp Met Glu Glu Met Tyr Leu Phe His Ile Trp
35 40 45

Gly Gln Arg Trp Tyr Gln Lys Glu Phe Ala Gln Glu Met Thr Phe Asn
50 55 60

Ile Ser Ser Ser Ser Arg Asp Pro Glu Val Cys Leu Asp Leu Arg Pro
65 70 75 80

Gly Thr Asn Tyr Asn Val Ser Leu Arg Ala Leu Ser Ser Glu Leu Pro
85 90 95

Val Val Ile Ser Leu Thr Thr Gln Ile Thr Glu Pro Pro Leu Pro Glu
100 105 110

Val Glu Phe Phe Thr Val His Arg Gly Pro Leu Pro Arg Leu Arg Leu
115 120 125

Arg Lys Ala Lys Glu Lys Asn Gly Pro Ile Ser Ser Tyr Gln Val Leu
130 135 140

Val Leu Pro Leu Ala Leu Gln Ser Thr Phe Ser Cys Asp Ser Glu Gly
145 150 155 160

Ala Ser Ser Phe Phe Ser Asn Ala Ser Asp Ala Asp Gly Tyr Val Ala
165 170 175

Ala Glu Leu Leu Ala Lys Asp Val Pro Asp Asp Ala Met Glu Ile Pro
180 185 190

Ile Gly Asp Arg Leu Tyr Tyr Gly Glu Tyr Tyr Asn Ala Pro Leu Lys
195 200 205

Arg Gly Ser Asp Tyr Cys Ile Ile Leu Arg Ile Thr Ser Glu Trp Asn
210 215 220

Lys Val Arg Arg His Ser Cys Ala Val Trp Ala Gln Val Lys Asp Ser
225 230 235 240

Ser Leu Met Leu Leu Gln Met Ala Gly Val Gly Leu Gly Ser Leu Ala
245 250 255

939

Val Val Ile Ile Leu Thr Phe Leu Ser Phe Ser Ala Val
 260 265

<210> 977

<211> 477

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (471)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (473)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 977

Leu Phe Ser Pro Gln Val Glu Leu Thr Lys Ala Met Val Met Glu Lys
 1 5 10 15

Pro Ser Pro Leu Leu Val Gly Arg Glu Phe Val Arg Gln Tyr Tyr Thr
 20 25 30

Leu Leu Asn Gln Ala Pro Asp Met Leu His Arg Phe Tyr Gly Lys Asn
 35 40 45

Ser Ser Tyr Val His Gly Gly Leu Asp Ser Asn Gly Lys Pro Ala Asp
 50 55 60

Ala Val Tyr Gly Gln Lys Glu Ile His Arg Lys Val Met Ser Gln Asn
 65 70 75 80

Phe Thr Asn Cys His Thr Lys Ile Arg His Val Asp Ala His Ala Thr
 85 90 95

Leu Asn Asp Gly Val Val Val Gln Val Met Gly Leu Leu Ser Asn Asn
 100 105 110

Asn Gln Ala Leu Arg Arg Phe Met Gln Thr Phe Val Leu Ala Pro Glu
 115 120 125

Gly Ser Val Ala Asn Lys Phe Tyr Val His Asn Asp Ile Phe Arg Tyr
 130 135 140

Gln Asp Glu Val Phe Gly Gly Phe Val Thr Glu Pro Gln Glu Glu Ser
 145 150 155 160

940

Glu	Glu	Glu	Val	Glu	Glu	Pro	Glu	Glu	Arg	Gln	Gln	Thr	Pro	Glu	Val	165	170	175	
Val	Pro	Asp	Asp	Ser	Gly	Thr	Phe	Tyr	Asp	Gln	Ala	Val	Val	Ser	Asn	180	185	190	
Asp	Met	Glu	Glu	His	Leu	Glu	Glu	Pro	Val	Ala	Glu	Pro	Glu	Pro	Asp	195	200	205	
Pro	Glu	Pro	Glu	Pro	Glu	Gln	Glu	Pro	Val	Ser	Glu	Ile	Gln	Glu	Glu	210	215	220	
Lys	Pro	Glu	Pro	Val	Leu	Glu	Glu	Thr	Ala	Pro	Glu	Asp	Ala	Gln	Lys	225	230	235	240
Ser	Ser	Ser	Pro	Ala	Pro	Ala	Asp	Ile	Ala	Gln	Thr	Val	Gln	Glu	Asp	245	250	255	
Leu	Arg	Thr	Phe	Ser	Trp	Ala	Ser	Val	Thr	Ser	Lys	Asn	Leu	Pro	Pro	260	265	270	
Ser	Gly	Ala	Val	Pro	Val	Thr	Gly	Ile	Pro	Pro	His	Val	Val	Lys	Val	275	280	285	
Pro	Ala	Ser	Gln	Pro	Arg	Pro	Glu	Ser	Lys	Pro	Glu	Ser	Gln	Ile	Pro	290	295	300	
Pro	Gln	Arg	Pro	Gln	Arg	Asp	Gln	Arg	Val	Arg	Glu	Gln	Arg	Ile	Asn	305	310	315	320
Ile	Pro	Pro	Gln	Arg	Gly	Pro	Arg	Pro	Ile	Arg	Glu	Ala	Gly	Glu	Gln	325	330	335	
Gly	Asp	Ile	Glu	Pro	Arg	Arg	Met	Val	Arg	His	Pro	Asp	Ser	His	Gln	340	345	350	
Leu	Phe	Ile	Gly	Asn	Leu	Pro	His	Glu	Val	Asp	Lys	Ser	Glu	Leu	Lys	355	360	365	
Asp	Phe	Phe	Gln	Ser	Tyr	Gly	Asn	Val	Val	Glu	Leu	Arg	Ile	Asn	Ser	370	375	380	
Gly	Gly	Lys	Leu	Pro	Asn	Phe	Gly	Phe	Val	Val	Phe	Asp	Asp	Ser	Glu	385	390	395	400
Pro	Val	Gln	Lys	Val	Leu	Ser	Asn	Arg	Pro	Ile	Met	Phe	Arg	Gly	Glu	405	410	415	
Val	Arg	Leu	Asn	Val	Glu	Glu	Lys	Lys	Thr	Arg	Ala	Ala	Arg	Glu	Gly	420	425	430	

941

Asp Arg Arg Asp Asn Arg Leu Arg Gly Pro Gly Gly Pro Arg Gly Gly
 435 440 445

Leu Gly Gly Gly Met Arg Gly Pro Pro Arg Gly Gly Met Val Gln Lys
 450 455 460

Pro Gly Phe Gly Val Gly Xaa Gly Xaa Ala Pro Arg Gln
 465 470 475

<210> 978

<211> 339

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (326)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (336)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (339)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 978

Pro Val Ala Ala Val Ser Gly Arg Ala Val Gly Gly Ser Arg Gly Gly
 1 5 10 15

Gly Arg Gly Gly Met Ala Ala Ala Ala Gly Ala Gly Ser Gly Pro
 20 25 30

Trp Ala Ala Gln Glu Lys Gln Phe Pro Pro Ala Leu Leu Ser Phe Phe
 35 40 45

Ile Tyr Asn Pro Arg Phe Gly Pro Arg Glu Gly Gln Glu Glu Asn Lys
 50 55 60

Ile Leu Phe Tyr His Pro Asn Glu Val Glu Lys Asn Glu Lys Ile Arg

943

<210> 979

<211> 283

<212> PRT

<213> Homo sapiens

<400> 979

His	Arg	Glu	Arg	Arg	Val	Gly	Leu	Arg	Cys	Ala	Arg	Arg	Thr	Ser	Glu
1					5				10					15	
Ala	Ala	Gly	Ser	Gly	Ala	Gly	Pro	Pro	Gly	Pro	Leu	Gln	Gly	Arg	Ser
			20					25					30		
Gly	Ser	Ser	Trp	Ala	Pro	Arg	Pro	Gly	Arg	Arg	Thr	Glu	Glu	Arg	Arg
		35					40					45			
Lys	Gly	Ala	Gly	Gly	Thr	Arg	Pro	Arg	Pro	Ala	Ala	Ala	Met	Asn	Ser
	50					55					60				
Asn	Val	Glu	Asn	Leu	Pro	Pro	His	Ile	Ile	Arg	Leu	Val	Tyr	Lys	Glu
65					70					75					80
Val	Thr	Thr	Leu	Thr	Ala	Asp	Pro	Pro	Asp	Gly	Ile	Lys	Val	Phe	Pro
				85					90					95	
Asn	Glu	Glu	Asp	Leu	Thr	Asp	Leu	Gln	Val	Thr	Ile	Glu	Gly	Pro	Glu
			100					105					110		
Gly	Thr	Pro	Tyr	Ala	Gly	Gly	Leu	Phe	Arg	Met	Lys	Leu	Leu	Leu	Gly
		115					120					125			
Lys	Asp	Phe	Pro	Ala	Ser	Pro	Pro	Lys	Gly	Tyr	Phe	Leu	Thr	Lys	Ile
	130					135					140				
Phe	His	Pro	Asn	Val	Gly	Ala	Asn	Gly	Glu	Ile	Cys	Val	Asn	Val	Leu
145					150					155					160
Lys	Arg	Asp	Trp	Thr	Ala	Glu	Leu	Gly	Ile	Arg	His	Val	Leu	Leu	Thr
			165						170					175	
Ile	Lys	Cys	Leu	Leu	Ile	His	Pro	Asn	Pro	Glu	Ser	Ala	Leu	Asn	Glu
			180					185					190		
Glu	Ala	Gly	Arg	Leu	Leu	Leu	Glu	Asn	Tyr	Glu	Glu	Tyr	Ala	Ala	Arg
		195					200					205			
Ala	Arg	Leu	Leu	Thr	Glu	Ile	His	Gly	Gly	Ala	Gly	Gly	Pro	Ser	Gly
	210					215					220				

944

Arg Ala Glu Ala Gly Arg Ala Leu Ala Ser Gly Thr Glu Ala Ser Ser
225 230 235 240

Thr Asp Pro Gly Ala Pro Gly Gly Pro Gly Gly Ala Glu Gly Pro Met
245 250 255

Ala Lys Lys His Ala Gly Glu Arg Asp Lys Lys Leu Ala Ala Lys Lys
260 265 270

Lys Thr Asp Lys Lys Arg Ala Leu Arg Arg Leu
275 280

<210> 980

<211> 353

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (333)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (346)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 980

Arg Lys Gln Cys Gln Asp Ser Lys Asp Ser Asn His Leu Pro Lys Met
1 5 10 15

Ser Leu Ser Ala Phe Thr Leu Phe Leu Ala Leu Ile Gly Gly Thr Ser
20 25 30

Gly Gln Tyr Tyr Asp Tyr Asp Phe Pro Leu Ser Ile Tyr Gly Gln Ser
35 40 45

Ser Pro Asn Cys Ala Pro Glu Cys Asn Cys Pro Glu Ser Tyr Pro Ser
50 55 60

Ala Met Tyr Cys Asp Glu Leu Lys Leu Lys Ser Val Pro Met Val Pro
65 70 75 80

Pro Gly Ile Lys Tyr Leu Tyr Leu Arg Asn Asn Gln Ile Asp His Ile
85 90 95

Asp Glu Lys Ala Phe Glu Asn Val Thr Asp Leu Gln Trp Leu Ile Leu
100 105 110

Asp	His	Asn	Leu	Leu	Glu	Asn	Ser	Lys	Ile	Lys	Gly	Arg	Val	Phe	Ser
		115				120						125			
Lys	Leu	Lys	Gln	Leu	Lys	Lys	Leu	His	Ile	Asn	His	Asn	Asn	Leu	Thr
		130				135				140					
Glu	Ser	Val	Gly	Pro	Leu	Pro	Lys	Ser	Leu	Glu	Asp	Leu	Gln	Leu	Thr
145				150						155				160	
His	Asn	Lys	Ile	Thr	Lys	Leu	Gly	Ser	Phe	Glu	Gly	Leu	Val	Asn	Leu
				165				170						175	
Thr	Phe	Ile	His	Leu	Gln	His	Asn	Arg	Leu	Lys	Glu	Asp	Ala	Val	Ser
		180						185				190			
Ala	Ala	Phe	Lys	Gly	Leu	Lys	Ser	Leu	Glu	Tyr	Leu	Asp	Leu	Ser	Phe
		195				200						205			
Asn	Gln	Ile	Ala	Arg	Leu	Pro	Ser	Gly	Leu	Pro	Val	Ser	Leu	Leu	Thr
		210				215				220					
Leu	Tyr	Leu	Asp	Asn	Asn	Lys	Ile	Ser	Asn	Ile	Pro	Asp	Glu	Tyr	Phe
225				230						235				240	
Lys	Arg	Phe	Asn	Ala	Leu	Gln	Tyr	Leu	Arg	Leu	Ser	His	Asn	Glu	Leu
				245				250						255	
Ala	Asp	Ser	Gly	Ile	Pro	Gly	Asn	Ser	Phe	Asn	Val	Ser	Ser	Leu	Val
		260				265						270			
Glu	Leu	Asp	Leu	Ser	Tyr	Asn	Lys	Leu	Lys	Asn	Ile	Pro	Thr	Val	Asn
		275				280						285			
Glu	Asn	Leu	Glu	Asn	Tyr	Tyr	Leu	Glu	Val	Asn	Gln	Leu	Glu	Lys	Phe
290						295				300					
Asp	Ile	Lys	Ser	Phe	Cys	Lys	Ile	Leu	Gly	Pro	Leu	Ser	Tyr	Ser	Lys
305				310						315				320	
Ile	Lys	His	Leu	Arg	Leu	Asp	Gly	Asn	Arg	Ile	Ser	Xaa	Thr	Ser	Leu
				325				330						335	
Pro	Pro	Asp	Met	Tyr	Glu	Cys	Leu	Arg	Xaa	Ala	Asn	Glu	Val	Thr	Leu
		340				345						350			
Asn															

946

<210> 981
 <211> 343
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (343)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 981

Asn	Leu	Thr	Lys	Asn	Met	Thr	Ala	Leu	Ser	Ser	Glu	Asn	Cys	Ser	Phe
1				5					10					15	
Gln	Tyr	Gln	Leu	Arg	Gln	Thr	Asn	Gln	Pro	Leu	Asp	Val	Asn	Tyr	Leu
			20					25					30		
Leu	Phe	Leu	Ile	Ile	Leu	Gly	Lys	Ile	Leu	Leu	Asn	Ile	Leu	Thr	Leu
		35					40					45			
Gly	Met	Arg	Arg	Lys	Asn	Thr	Cys	Gln	Asn	Phe	Met	Glu	Tyr	Phe	Cys
	50					55					60				
Ile	Ser	Leu	Ala	Phe	Val	Asp	Leu	Leu	Leu	Leu	Val	Asn	Ile	Ser	Ile
65					70					75					80
Ile	Leu	Tyr	Phe	Arg	Asp	Phe	Val	Leu	Leu	Ser	Ile	Arg	Phe	Thr	Lys
				85					90						95
Tyr	His	Ile	Cys	Leu	Phe	Thr	Gln	Ile	Ile	Ser	Phe	Thr	Tyr	Gly	Phe
			100					105						110	
Leu	His	Tyr	Pro	Val	Phe	Leu	Thr	Ala	Cys	Ile	Asp	Tyr	Cys	Leu	Asn
		115						120				125			
Phe	Ser	Lys	Thr	Thr	Lys	Leu	Ser	Phe	Lys	Cys	Gln	Lys	Leu	Phe	Tyr
		130				135					140				
Phe	Phe	Thr	Val	Ile	Leu	Ile	Trp	Ile	Ser	Val	Leu	Ala	Tyr	Val	Leu
145					150					155					160
Gly	Asp	Pro	Ala	Ile	Tyr	Gln	Ser	Leu	Lys	Ala	Gln	Asn	Ala	Tyr	Ser
				165					170					175	
Arg	His	Cys	Pro	Phe	Tyr	Val	Ser	Ile	Gln	Ser	Tyr	Trp	Leu	Ser	Phe
			180					185					190		
Phe	Met	Val	Met	Ile	Leu	Phe	Val	Ala	Phe	Ile	Thr	Cys	Trp	Glu	Glu
		195					200					205			
Val	Thr	Thr	Leu	Val	Gln	Ala	Ile	Arg	Ile	Thr	Ser	Tyr	Met	Asn	Glu

947

210		215		220
Thr Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg				
225		230		235 240
Ser Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr				
	245		250	255
Trp Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val				
	260		265	270
Gln Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val				
	275		280	285
Asn Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu				
	290		295	300
Asn Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys				
305		310		315 320
Cys Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys				
	325		330	335
Pro Ile Ser Ile Met Ile Xaa				
	340			

<210> 982

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 982

Gly	Leu	Pro	Pro	Ser	Thr	Phe	Leu	His	Ser	Ala	Val	Ser	Thr	Leu	Pro
1				5					10					15	

His	Arg	Pro	Ser	Pro	Pro	Ser	Leu	Leu	Pro	Ala	Pro	Cys	Lys	Pro	Leu
			20					25					30		

Arg	Leu	Gly	Leu	Ala	Thr	Val	Pro	Ala	Gly	Ser	Pro	Gly	Leu	Gly	Val
		35						40					45		

Gly	Asp	Ser	Leu	Gln	Ala	Arg	Ser	Pro	Glu	Thr	Ser	Glu	Gly	His	Pro
	50					55					60				

Leu	Arg	Val	Ala	Arg	Pro	Pro	Val	Ala	Asn	Leu	Ser	Ala	Ala	Ser	Ala
65					70					75					80

Thr	Ser	Pro	Ala	Gly	Pro	Trp	Phe	Arg	Trp	Pro	Pro	Arg	Cys	Leu	Ala
				85					90					95	

Glu	Thr	Arg	His	Gly	Pro	Ser	Ala	Gly	Pro	His	Xaa	Phe	Pro	Xaa	Pro
			100					105					110		

Gly	Xaa	Trp	His	Cys	Ser	Arg	Gln	Xaa	Xaa	Gly	His	Gln	Xaa	Xaa	Asn
		115					120					125			

Arg	Thr	Gln	Xaa	Pro	Ala	Gln	Thr	Ala	Ala	Gly	Met	Gly	Ala
	130					135					140		

<210> 983
 <211> 193
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (139)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 983
 Val Asn Phe Lys Ala Phe Glu Met Gly Lys Asp Tyr Tyr Cys Ile Leu
 1 5 10 15

 Gly Ile Glu Lys Gly Ala Ser Asp Glu Asp Ile Lys Lys Ala Tyr Arg
 20 25 30

 Lys Gln Ala Leu Lys Phe His Pro Asp Lys Asn Lys Ser Pro Gln Ala
 35 40 45

 Glu Glu Lys Phe Lys Glu Val Ala Glu Ala Tyr Glu Val Leu Ser Asp
 50 55 60

 Pro Lys Lys Arg Glu Ile Tyr Xaa Gln Phe Gly Glu Glu Gly Leu Lys
 65 70 75 80

 Gly Gly Ala Gly Gly Thr Asp Gly Gln Gly Gly Thr Phe Arg Tyr Thr
 85 90 95

 Phe His Gly Asp Pro His Ala Thr Phe Ala Ala Phe Phe Gly Gly Ser
 100 105 110

 Asn Pro Phe Glu Ile Phe Phe Gly Arg Arg Met Gly Gly Gly Arg Asp
 115 120 125

 Ser Glu Glu Met Glu Ile Xaa Gly Asp Pro Xaa Ser Ala Phe Gly Phe
 130 135 140

 Ser Met Asn Gly Tyr Pro Arg Asp Arg Asn Ser Val Gly Pro Ser Arg
 145 150 155 160

950

Leu Lys Gln Asp Pro Pro Val Ile His Glu Leu Arg Val Ser Leu Glu
 165 170 175

Glu Ile Tyr Ser Gly Cys Thr Lys Arg Asp Glu Arg Phe Leu Glu Lys
 180 185 190

Gly

<210> 984

<211> 402

<212> PRT

<213> Homo sapiens

<400> 984

Lys Ser Tyr Glu Met Glu Leu Glu Glu Gly Lys Ala Gly Ser Gly Leu
 1 5 10 15

Arg Gln Tyr Tyr Leu Ser Lys Ile Glu Glu Leu Gln Leu Ile Val Asn
 20 25 30

Asp Lys Ser Gln Asn Leu Arg Arg Leu Gln Ala Gln Arg Asn Glu Leu
 35 40 45

Asn Ala Lys Val Arg Leu Leu Arg Glu Glu Leu Gln Leu Leu Gln Glu
 50 55 60

Gln Gly Ser Tyr Val Gly Glu Val Val Arg Ala Met Asp Lys Lys Lys
 65 70 75 80

Val Leu Val Lys Val His Pro Glu Gly Lys Phe Val Val Asp Val Asp
 85 90 95

Lys Asn Ile Asp Ile Asn Asp Val Thr Pro Asn Cys Arg Val Ala Leu
 100 105 110

Arg Asn Asp Ser Tyr Thr Leu His Lys Ile Leu Pro Asn Lys Val Asp
 115 120 125

Pro Leu Val Ser Leu Met Met Val Glu Lys Val Pro Asp Ser Thr Tyr
 130 135 140

Glu Met Ile Gly Gly Leu Asp Lys Gln Ile Lys Glu Ile Lys Glu Val
 145 150 155 160

Ile Glu Leu Pro Val Lys His Pro Glu Leu Phe Glu Ala Leu Gly Ile
 165 170 175

951

Ala Gln Pro Lys Gly Val Leu Leu Tyr Gly Pro Pro Gly Thr Gly Lys
 180 185 190
 Thr Leu Leu Ala Arg Ala Val Ala His His Thr Asp Cys Thr Phe Ile
 195 200 205
 Arg Val Ser Gly Ser Glu Leu Val Gln Lys Phe Ile Gly Glu Gly Ala
 210 215 220
 Arg Met Val Arg Glu Leu Phe Val Met Ala Arg Glu His Ala Pro Ser
 225 230 235 240
 Ile Ile Phe Met Asp Glu Ile Asp Ser Ile Gly Ser Ser Arg Leu Glu
 245 250 255
 Gly Gly Ser Gly Gly Asp Ser Glu Val Gln Arg Thr Met Leu Glu Leu
 260 265 270
 Leu Asn Gln Leu Asp Gly Phe Glu Ala Thr Lys Asn Ile Lys Val Ile
 275 280 285
 Met Ala Thr Asn Arg Ile Asp Ile Leu Asp Ser Ala Leu Leu Arg Pro
 290 295 300
 Gly Arg Ile Asp Arg Lys Ile Glu Phe Pro Pro Pro Asn Glu Glu Ala
 305 310 315 320
 Arg Leu Asp Ile Leu Lys Ile His Ser Arg Lys Met Asn Leu Thr Arg
 325 330 335
 Gly Ile Asn Leu Arg Lys Ile Ala Glu Leu Met Pro Gly Ala Ser Gly
 340 345 350
 Ala Glu Val Lys Gly Val Cys Thr Glu Ala Gly Met Tyr Ala Leu Arg
 355 360 365
 Glu Arg Arg Val His Val Thr Gln Glu Asp Phe Glu Met Ala Val Ala
 370 375 380
 Lys Val Met Gln Lys Asp Ser Glu Lys Asn Met Ser Ile Lys Lys Leu
 385 390 395 400

Trp Lys

<210> 985

<211> 347

<212> PRT

<213> Homo sapiens

952

<400> 985

Arg Arg Arg Arg Trp His Pro Gly Pro Gly Gly Pro Arg Arg Thr Ala
 1 5 10 15

Gly Lys Gly Pro Arg Lys Val Ala Ser Ala Ser Ala Ala Ala Ser Thr
 20 25 30

Leu Ser Glu Pro Pro Arg Arg Thr Gln Glu Ser Arg Thr Arg Thr Arg
 35 40 45

Ala Leu Gly Leu Pro Thr Leu Pro Met Glu Lys Leu Ala Ala Ser Thr
 50 55 60

Glu Pro Gln Gly Pro Arg Pro Val Leu Gly Arg Glu Ser Val Gln Val
 65 70 75 80

Pro Asp Asp Gln Asp Phe Arg Ser Phe Arg Ser Glu Cys Glu Ala Glu
 85 90 95

Val Gly Trp Asn Leu Thr Tyr Ser Arg Ala Gly Val Ser Val Trp Val
 100 105 110

Gln Ala Val Glu Met Asp Arg Thr Leu His Lys Ile Lys Cys Arg Met
 115 120 125

Glu Cys Cys Asp Val Pro Ala Glu Thr Leu Tyr Asp Val Leu His Asp
 130 135 140

Ile Glu Tyr Arg Lys Lys Trp Asp Ser Asn Val Ile Glu Thr Phe Asp
 145 150 155 160

Ile Ala Arg Leu Thr Val Asn Ala Asp Val Gly Tyr Tyr Ser Trp Arg
 165 170 175

Cys Pro Lys Pro Leu Lys Asn Arg Asp Val Ile Thr Leu Arg Ser Trp
 180 185 190

Leu Pro Met Gly Ala Asp Tyr Ile Ile Met Asn Tyr Ser Val Lys His
 195 200 205

Pro Lys Tyr Pro Pro Arg Lys Asp Leu Val Arg Ala Val Ser Ile Gln
 210 215 220

Thr Gly Tyr Leu Ile Gln Ser Thr Gly Pro Lys Ser Cys Val Ile Thr
 225 230 235 240

Tyr Leu Ala Gln Val Asp Pro Lys Gly Ser Leu Pro Lys Trp Val Val
 245 250 255

Asn Lys Ser Ser Gln Phe Leu Ala Pro Lys Ala Met Lys Lys Met Tyr

Lys	Ala	Cys	Leu	Lys	Tyr	Pro	Glu	Trp	Lys	Gln	Lys	His	Leu	Pro	His		
		275					280					285					
Phe	Lys	Pro	Trp	Leu	His	Pro	Glu	Gln	Ser	Pro	Leu	Pro	Ser	Leu	Ala		
	290					295					300						
Leu	Ser	Glu	Leu	Ser	Val	Gln	His	Ala	Asp	Ser	Leu	Glu	Asn	Ile	Asp		
305					310					315					320		
Glu	Ser	Ala	Val	Ala	Glu	Ser	Arg	Glu	Glu	Arg	Met	Gly	Gly	Ala	Gly		
				325					330						335		
Gly	Glu	Gly	Ser	Asp	Asp	Asp	Thr	Ser	Leu	Thr							
			340					345									

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<210> 986
<211> 106
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 986
Ala Ser Ile Cys Ala Asp Ala Lys Leu Trp Thr Met Tyr Ala Arg Pro
  1             5             10             15
Ser Asn Arg Gln Arg Cys Leu Gly Ser Lys His Thr Glu Arg Thr Trp
          20             25             30
Thr Ala Trp Xaa Arg Ser Leu Ile Arg Pro Phe Ser Met His Ile Leu
          35             40             45
Pro Lys Gln Ser Gln Ile Pro Leu Lys Gly Ala Asp Ser Ile Ser Ser
          50             55             60
Ser Val Gln Thr Leu Arg Ala Glu Arg Ser Gly Ser Gly Ser His Val
  65             70             75             80
Thr Ala Gln Asn Asn Leu Arg Asn Pro Leu Cys Pro Glu Gly Ser Leu
          85             90             95
Thr Ser Pro Ser Gly Ser Glu Gln Ser Leu
          100             105

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954

<210> 987

<211> 172

<212> PRT

<213> Homo sapiens

<400> 987

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Thr Pro Arg Gly Ala Val Lys Pro Ser Ala Asn Lys Tyr Pro Ile Phe
  1              5              10              15

Phe Phe Gly Thr His Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe
              20              25              30

Pro Tyr Lys Glu Tyr Lys Asp Lys Phe Gly Lys Ser Asn Lys Arg Lys
      35              40              45

Gly Phe Asn Glu Gly Leu Trp Glu Ile Glu Asn Asn Pro Gly Val Lys
      50              55              60

Phe Thr Gly Tyr Gln Ala Ile Gln Gln Gln Ser Ser Ser Glu Thr Glu
      65              70              75              80

Gly Glu Gly Gly Asn Thr Ala Asp Ala Ser Ser Glu Glu Glu Gly Asp
              85              90              95

Arg Val Glu Glu Asp Gly Lys Gly Lys Arg Lys Asn Glu Lys Ala Gly
      100              105              110

Ser Lys Arg Lys Lys Ser Tyr Thr Ser Lys Lys Ser Ser Lys Gln Ser
      115              120              125

Arg Lys Ser Pro Gly Asp Glu Asp Asp Lys Asp Cys Lys Glu Glu Glu
      130              135              140

Asn Lys Ser Ser Ser Glu Gly Gly Asp Ala Gly Asn Asp Thr Arg Asn
      145              150              155              160

Thr Thr Ser Asp Leu Gln Lys Thr Ser Glu Gly Thr
              165              170

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<210> 988

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 988

Ala Lys Gln Asp Pro Val Pro Glu Gln Glu Met Ser Pro Ser Ile Ser
1 5 10 15

Asp Pro Cys Leu Gly Gln Ala Leu Met Gly Gly Pro Ser Phe Lys Ala
20 25 30

Val Val Gly Thr Ala Pro Pro Asn Ala Ser Leu Ser Phe Leu Pro Ile
35 40 45

His Gln Tyr Thr Ala Gly Pro Phe Leu Val Phe Val Gln Gln Glu Thr
50 55 60

His Phe Trp Trp Asp Met Pro Ser Ser Ala Thr Gly Pro Leu Thr Pro
65 70 75 80

Cys Ile Ser Val Leu Pro Val Ser Ala Gly Thr Asp Ser Lys Gly Lys
85 90 95

Pro Ser Val Trp Xaa Ile Gly Gly Trp Glu Gln Arg Gly Glu Asn Ala
100 105 110

Val Leu Ser Phe Cys Leu Gly Ile Pro His Thr Thr Trp Val Leu Pro
115 120 125

Gly Lys Pro Val Leu Ser Lys Thr Met Asp Leu Ala Ser Pro Thr Gly
130 135 140

Leu Xaa Ser Gln His Leu Arg Glu Gly Gly Trp Lys Arg Leu Cys Pro
145 150 155 160

His Phe Glu Leu Gln Ala Gly Ser Ala Ala Leu Lys Pro Ser Ser Asp
165 170 175

Phe Leu Thr Gln Asp Pro Ala Pro Gly Arg Arg Arg Val Gly Ala Gly
180 185 190

Leu Val Gly Gln Lys Glu Ala Ser Ala Gly Leu Glu Asp Pro Ser Ser
195 200 205

Thr Ser His Ser Val Ser Ser Ser Trp Glu Asn Leu Cys Gln Ala Arg
210 215 220

Ala Val Ile Gly Pro His Glu Val Ser Glu Ala Pro Ser Trp

956

225

230

235

<210> 989

<211> 74

<212> PRT

<213> Homo sapiens

<400> 989

Ser Leu Ile Lys Ala Leu Tyr Ile Leu Tyr Gly Phe Arg His His His
 1 5 10 15

Thr Lys Lys Leu Thr Pro Ser Ile Pro Val Phe Val Gly Gln Ala Ser
 20 25 30

Phe Phe Ser Pro Cys Ser Val Ser His Thr Val Cys Leu Gln Lys Leu
 35 40 45

Leu Ile Gly Ala Lys Tyr Asn Cys Gln Tyr Asn Leu Lys Thr Thr Met
 50 55 60

Cys Pro Arg Arg Pro Thr Cys Leu Phe Pro
 65 70

<210> 990

<211> 295

<212> PRT

<213> Homo sapiens

<400> 990

Ala Pro Ala Arg Pro Gly Ser Leu Pro Ser Thr Arg Ser Ala Pro Leu
 1 5 10 15

Val Pro Ser Ser Arg Arg Arg Pro Ala Glu Ser Pro Leu Arg Ser Arg
 20 25 30

Arg Cys Arg Gly Asp Met Val Leu Cys Val Gln Gly Pro Arg Pro Leu
 35 40 45

Leu Ala Val Glu Arg Thr Gly Gln Arg Pro Leu Trp Ala Pro Ser Leu
 50 55 60

Glu Leu Pro Lys Pro Val Met Gln Pro Leu Pro Ala Gly Ala Phe Leu
 65 70 75 80

Glu Glu Val Ala Glu Gly Thr Pro Ala Gln Thr Glu Ser Glu Pro Lys
 85 90 95

957

Val Leu Asp Pro Glu Glu Asp Leu Leu Cys Ile Ala Lys Thr Phe Ser
 100 105 110
 Tyr Leu Arg Glu Ser Gly Trp Tyr Trp Gly Ser Ile Thr Ala Ser Glu
 115 120 125
 Ala Arg Gln His Leu Gln Lys Met Pro Glu Gly Thr Phe Leu Val Arg
 130 135 140
 Asp Ser Thr His Pro Ser Tyr Leu Phe Thr Leu Ser Val Lys Thr Thr
 145 150 155 160
 Arg Gly Pro Thr Asn Val Arg Ile Glu Tyr Ala Asp Ser Ser Phe Arg
 165 170 175
 Leu Asp Ser Asn Cys Leu Ser Arg Pro Arg Ile Leu Ala Phe Pro Asp
 180 185 190
 Val Val Ser Leu Val Gln His Tyr Val Ala Ser Cys Thr Ala Asp Thr
 195 200 205
 Arg Ser Asp Ser Pro Asp Pro Ala Pro Thr Pro Ala Leu Pro Met Pro
 210 215 220
 Lys Glu Asp Ala Pro Ser Asp Pro Ala Leu Pro Ala Pro Pro Pro Ala
 225 230 235 240
 Thr Ala Val His Leu Lys Leu Val Gln Pro Phe Val Arg Arg Ser Ser
 245 250 255
 Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg Leu Val
 260 265 270
 Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp Tyr Leu
 275 280 285
 Arg Gln Tyr Pro Phe Gln Leu
 290 295

<210> 991

<211> 58

<212> PRT

<213> Homo sapiens

<400> 991

Leu His Lys Val Ser Ile Leu Leu Tyr Ser Ala Val Leu Val Ser Phe
 1 5 10 15

Ser Cys Ile Gly Phe His Cys Ile Tyr Ser Leu Phe Met Leu Asn Leu

Phe Cys Ala Asn Phe Val Ala Arg Met Arg
50 55

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Ala His Ala Ser Pro Thr Arg Xaa Glu Ala Arg Val Val Val Val Arg
1 5 10 15

Cys Leu Pro Ala Cys Val Arg Asp Leu Pro Asp Ser Val Ala Ala Met
20 25 30

Ala Ser Asp Glu Gly Lys Leu Phe Val Gly Gly Leu Ser Phe Asp Thr
35 40 45

Asn Glu Gln Ser Leu Glu Gln Val Phe Ser Lys Tyr Gly Gln Ile Ser
50 55 60

Glu Val Val Val Val Lys Asp Arg Glu Thr Gln Arg Ser Arg Gly Phe
65 70 75 80

Gly Phe Val Thr Phe Glu Asn Ile Asp Asp Ala Lys Asp Ala Met Met
85 90 95

Ala Met Asn Gly Lys Ser Val Asp Gly Arg Gln Ile Arg Val Asp Gln
100 105 110

Ala Gly Lys Ser Ser Asp Asn Arg Ser Arg Gly Tyr Arg Gly Gly Ser
115 120 125

Ala Gly Gly Arg Gly Phe Phe Arg Gly Gly Arg Gly Arg Gly Arg Gly
130 135 140

Phe Ser Arg Gly Gly Gly Asp Arg Gly Tyr Gly Gly Asn Arg Phe Glu
145 150 155 160

959

Ser Arg Ser Gly Gly Tyr Gly Gly Ser Arg Asp Tyr Tyr Ser Ser Arg
 165 170 175

Ser Gln Ser Gly Gly Tyr Ser Asp Arg Ser Ser Gly Gly Ser Tyr Arg
 180 185 190

Asp Ser Tyr Asp Ser Tyr Ala Thr His Asn Glu
 195 200

<210> 993

<211> 252

<212> PRT

<213> Homo sapiens

<400> 993

Gly Gly Leu Ala Trp Arg Ala Leu Arg Thr Ser Gly Thr Leu Leu Arg
 1 5 10 15

Val Glu Arg Leu Leu Leu Glu Asp Tyr Cys Pro Glu Glu Lys Met Phe
 20 25 30

Gly Phe His Lys Pro Lys Met Tyr Arg Ser Ile Glu Gly Cys Cys Ile
 35 40 45

Cys Arg Ala Lys Ser Ser Ser Ser Arg Phe Thr Asp Ser Lys Arg Tyr
 50 55 60

Glu Lys Asp Phe Gln Ser Cys Phe Gly Leu His Glu Thr Arg Ser Gly
 65 70 75 80

Asp Ile Cys Asn Ala Cys Val Leu Leu Val Lys Arg Trp Lys Lys Leu
 85 90 95

Pro Ala Gly Ser Lys Lys Asn Trp Asn His Val Val Asp Ala Arg Ala
 100 105 110

Gly Pro Ser Leu Lys Thr Thr Leu Lys Pro Lys Lys Val Lys Thr Leu
 115 120 125

Ser Gly Asn Arg Ile Lys Ser Asn Gln Ile Ser Lys Leu Gln Lys Glu
 130 135 140

Phe Lys Arg His Asn Ser Asp Ala His Ser Thr Thr Ser Ser Ala Ser
 145 150 155 160

Pro Ala Gln Ser Pro Cys Tyr Ser Asn Gln Ser Asp Asp Gly Ser Asp
 165 170 175

Thr Glu Met Ala Ser Gly Ser Asn Arg Thr Pro Val Phe Ser Phe Leu

960

180	185	190
Asp Leu Thr Tyr Trp Lys Arg Gln Lys Ile Cys Cys Gly Ile Ile Tyr		
195	200	205
Lys Gly Arg Phe Gly Glu Val Leu Ile Asp Thr His Leu Phe Lys Pro		
210	215	220
Cys Cys Ser Asn Lys Lys Ala Ala Ala Glu Lys Pro Glu Glu Gln Gly		
225	230	235 240
Gln Ser Leu Cys Pro Ser Pro Leu Arg Ser Gly Asp		
245	250	

<210> 994

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 994

Arg Thr Arg Gly Xaa Asp Thr Gln Pro Thr Val Cys Thr Asp Ala Pro		
1	5	10 15
Ser Leu Leu Pro Leu Ser Arg Leu His Leu Arg Gly Ser Trp Asp Arg		
20	25	30
Arg Ser Val Ala Asn Met Gln Leu Phe Val Arg Ala Gln Glu Leu His		
35	40	45
Thr Phe Glu Val Thr Gly Gln Glu Thr Val Ala Gln Ile Lys Ala His		
50	55	60
Val Ala Ser Leu Glu Gly Ile Ala Pro Glu Asp Gln Val Val Leu Leu		
65	70	75 80
Ala Gly Ala Pro Leu Glu Asp Glu Ala Thr Leu Gly Gln Cys Gly Val		
85	90	95
Glu Ala Leu Thr Thr Leu Glu Val Ala Gly Arg Met Leu Gly Gly Lys		
100	105	110
Val His Gly Ser Leu Ala Arg Ala Gly Lys Val Arg Gly Gln Thr Pro		
115	120	125

961

Lys Val Ala Lys Gln Glu Lys Lys Lys Lys Lys Thr Gly Arg Ala Lys
 130 135 140

Arg Arg Met Gln Tyr Asn Arg Arg Phe Val Asn Val Val Pro Thr Phe
 145 150 155 160

Gly Lys Lys Lys Gly Pro Asn Ala Asn Ser
 165 170

<210> 995

<211> 156

<212> PRT

<213> Homo sapiens

<400> 995

Gly Ser Gly Thr His Pro Ala Arg Ala Ala Pro Ala Pro His Ala Arg
 1 5 10 15

Ala Ser Phe Ser Arg Pro Leu Ala Pro Arg Arg Ser His Leu Ser Ser
 20 25 30

Leu Ala His Ala Arg Pro Ala Arg Glu Pro Arg Arg Arg Leu Gly Pro
 35 40 45

Ala Glu Ala Pro Pro Arg His Val Phe Ala Ser Arg Arg Lys Leu Glu
 50 55 60

Thr Lys Ala Gly His Pro Pro Ala Val Lys Ala Gly Gly Met Arg Ile
 65 70 75 80

Val Gln Lys His Pro His Thr Gly Asp Thr Lys Glu Glu Lys Asp Lys
 85 90 95

Asp Asp Gln Glu Trp Glu Ser Pro Ser Pro Pro Lys Pro Thr Val Phe
 100 105 110

Ile Ser Gly Val Ile Ala Arg Gly Asp Lys Asp Phe Pro Pro Ala Ala
 115 120 125

Ala Gln Val Ala His Gln Lys Pro His Ala Ser Met Asp Lys His Pro
 130 135 140

Ser Pro Arg Thr Gln His Ile Gln Gln Pro Arg Lys
 145 150 155

<210> 996

<211> 217

962

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 996

Asn Ser Ala Glu Gln Glu Gly Ser Gln Trp Ser Leu Pro Val Leu His
 1 5 10 15

Ser Val Pro Asp Pro Ala Cys Leu Thr Leu Xaa Arg Val Ser Lys Gly
 20 25 30

Leu Ala Ala Val Arg Ser Ser Val Pro Arg Ala Gly Gly Val Ser Arg
 35 40 45

Arg Leu Ala Ala Val Arg Ser Thr Val Leu Cys Arg Ala Val Gly Cys
 50 55 60

Ile Leu Ala Glu Leu Leu Ala His Arg Pro Leu Leu Pro Gly Thr Ser
 65 70 75 80

Glu Ile His Gln Ile Asp Leu Ile Val Gln Leu Leu Gly Thr Pro Ser
 85 90 95

Glu Asn Ile Trp Pro Gly Phe Ser Lys Leu Pro Leu Val Gly Gln Tyr
 100 105 110

Ser Leu Arg Lys Gln Pro Tyr Asn Asn Leu Lys His Lys Phe Pro Trp
 115 120 125

Leu Ser Glu Ala Gly Leu Arg Cys Cys Thr Ser Cys Ser Cys Thr Thr
 130 135 140

Leu Arg Lys Gly Arg Arg Pro Gly Thr Ala Trp Arg Ala Pro Ile Ser
 145 150 155 160

Arg Arg Ser Pro Tyr Pro Val Ser Arg Ser Ser Cys Arg Pro Phe Pro
 165 170 175

Thr Thr Ala Thr Ser Gly Pro Pro Gln Pro Pro Pro Arg Ala Arg Ala
 180 185 190

Ser Ala Val Asn Pro Asp Gly Gly Pro Gly Thr Arg Leu Tyr Ser His
 195 200 205

Thr Arg Ser Ser Asp Gln Trp Cys Leu
 210 215

963

<210> 997

<211> 466

<212> PRT

<213> Homo sapiens

<400> 997

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Val Ser Pro Arg Ala Gly Gly Ala Gly Asn Asn Arg Gly Arg Ala His
  1              5              10              15

Arg Ala Ser Ser Cys Ser Leu Pro Ala Pro Pro Ala Thr Leu Asp Pro
      20              25              30

Arg Ile Pro Pro Ala Arg Leu Pro Ala Met Ala Asp Lys Glu Ala Ala
      35              40              45

Phe Asp Asp Ala Val Glu Glu Arg Val Ile Asn Glu Glu Tyr Lys Ile
      50              55              60

Trp Lys Lys Asn Thr Pro Phe Leu Tyr Asp Leu Val Met Thr His Ala
      65              70              75              80

Leu Glu Trp Pro Ser Leu Thr Ala Gln Trp Leu Pro Asp Val Thr Arg
      85              90              95

Pro Glu Gly Lys Asp Phe Ser Ile His Arg Leu Val Leu Gly Thr His
      100             105             110

Thr Ser Asp Glu Gln Asn His Leu Val Ile Ala Ser Val Gln Leu Pro
      115             120             125

Asn Asp Asp Ala Gln Phe Asp Ala Ser His Tyr Asp Ser Glu Lys Gly
      130             135             140

Glu Phe Gly Gly Phe Gly Ser Val Ser Gly Lys Ile Glu Ile Glu Ile
      145             150             155             160

Lys Ile Asn His Glu Gly Glu Val Asn Arg Ala Arg Tyr Met Pro Gln
      165             170             175

Asn Pro Cys Ile Ile Ala Thr Lys Thr Pro Ser Ser Asp Val Leu Val
      180             185             190

Phe Asp Tyr Thr Lys His Pro Ser Lys Pro Asp Pro Ser Gly Glu Cys
      195             200             205

Asn Pro Asp Leu Arg Leu Arg Gly His Gln Lys Glu Gly Tyr Gly Leu
      210             215             220

Ser Trp Asn Pro Asn Leu Ser Gly His Leu Leu Ser Ala Ser Asp Asp

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225						230						235						240
His	Thr	Ile	Cys	Leu	Trp	Asp	Ile	Ser	Ala	Val	Pro	Lys	Glu	Gly	Lys			
				245					250					255				
Val	Val	Asp	Ala	Lys	Thr	Ile	Phe	Thr	Gly	His	Thr	Ala	Val	Val	Glu			
				260					265					270				
Asp	Val	Ser	Trp	His	Leu	Leu	His	Glu	Ser	Leu	Phe	Gly	Ser	Val	Ala			
				275					280					285				
Asp	Asp	Gln	Lys	Leu	Met	Ile	Trp	Asp	Thr	Arg	Ser	Asn	Asn	Thr	Ser			
				290					295					300				
Lys	Pro	Ser	His	Ser	Val	Asp	Ala	His	Thr	Ala	Glu	Val	Asn	Cys	Leu			
305								310					315	320				
Ser	Phe	Asn	Pro	Tyr	Ser	Glu	Phe	Ile	Leu	Ala	Thr	Gly	Ser	Ala	Asp			
				325					330					335				
Lys	Thr	Val	Ala	Leu	Trp	Asp	Leu	Arg	Asn	Leu	Lys	Leu	Lys	Leu	His			
				340					345					350				
Ser	Phe	Glu	Ser	His	Lys	Asp	Glu	Ile	Phe	Gln	Val	Gln	Trp	Ser	Pro			
				355					360					365				
His	Asn	Glu	Thr	Ile	Leu	Ala	Ser	Ser	Gly	Thr	Asp	Arg	Arg	Leu	Asn			
370								375					380					
Val	Trp	Asp	Leu	Ser	Lys	Ile	Gly	Glu	Glu	Gln	Ser	Pro	Glu	Asp	Ala			
385								390					395	400				
Glu	Asp	Gly	Pro	Pro	Glu	Leu	Leu	Phe	Ile	His	Gly	Gly	His	Thr	Ala			
				405					410					415				
Lys	Ile	Ser	Asp	Phe	Ser	Trp	Asn	Pro	Asn	Glu	Pro	Trp	Val	Ile	Cys			
				420					425					430				
Ser	Val	Ser	Glu	Asp	Asn	Ile	Met	Gln	Val	Trp	Gln	Met	Ala	Glu	Asn			
				435					440					445				
Ile	Tyr	Asn	Asp	Glu	Asp	Pro	Glu	Gly	Ser	Val	Asp	Pro	Glu	Gly	Gln			
450								455					460					
Gly	Ser																	
465																		

<210> 998

<211> 165

965

<212> PRT

<213> Homo sapiens

<400> 998

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Thr Arg Pro Pro Thr Arg Arg Pro Thr Arg Pro Pro Lys Ala Lys Lys
  1              5              10              15

Glu Ala Pro Ala Pro Pro Lys Ala Glu Ala Lys Ala Lys Ala Leu Lys
      20              25              30

Ala Lys Lys Ala Val Leu Lys Gly Val His Ser His Lys Lys Lys Lys
      35              40              45

Ile Arg Thr Ser Pro Thr Phe Arg Arg Pro Lys Thr Leu Arg Leu Arg
      50              55              60

Arg Gln Pro Lys Tyr Pro Arg Lys Ser Ala Pro Arg Arg Asn Lys Leu
      65              70              75              80

Asp His Tyr Ala Ile Ile Lys Phe Pro Leu Thr Thr Glu Ser Ala Met
      85              90              95

Lys Lys Ile Glu Asp Asn Asn Thr Leu Val Phe Ile Val Asp Val Lys
      100             105             110

Ala Asn Lys His Gln Ile Lys Gln Ala Val Lys Lys Leu Tyr Asp Ile
      115             120             125

Asp Val Ala Lys Val Asn Thr Leu Ile Arg Pro Asp Gly Glu Lys Lys
      130             135             140

Ala Tyr Val Arg Leu Ala Pro Asp Tyr Asp Ala Leu Asp Val Ala Asn
      145             150             155             160

Lys Ile Gly Ile Ile
      165

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<210> 999

<211> 194

<212> PRT

<213> Homo sapiens

<400> 999

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Pro Glu Asn Ser Thr Ser Ser Phe Leu Leu Trp Gly Cys Pro Pro Ser
  1              5              10              15

Val Val Cys Phe Thr Val Gly Ser Pro Ala Arg Arg Pro Gln Cys Phe
      20              25              30

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Ala Leu Gly Pro Arg Ala Gln Leu Xaa Ala Ala Ala Gln Thr Asn Ser
20 25 30

968

Ile Thr Ser Gln Leu Glu Ile Asn Phe Gly Asp Leu Gly Arg Pro Gly
305 310 315 320

Arg Gly Gly Arg Gly Gly Arg Gly Gly Arg Gly Arg Gly Gly Arg Pro
325 330 335

Asn Arg Gly Ser Arg Thr Asp Lys Ser Ser Ala Ser Ala Pro Asp Val
340 345 350

Asp Asp Pro Glu Ala Phe Pro Ala Leu Ala
355 360

<210> 1001

<211> 207

<212> PRT

<213> Homo sapiens

<400> 1001

Leu Met Ser Val Val Arg Gly Phe Ser Glu Ala Ala Ala Gln Tyr Asn
1 5 10 15

Pro Glu Pro Pro Pro Pro Arg Thr His Tyr Ser Asn Ile Glu Ala Asn
20 25 30

Glu Ser Glu Glu Val Arg Gln Phe Arg Arg Leu Phe Ala Gln Leu Ala
35 40 45

Gly Asp Asp Met Glu Val Ser Ala Thr Glu Leu Met Asn Ile Leu Asn
50 55 60

Lys Val Val Thr Arg His Pro Asp Leu Lys Thr Asp Gly Phe Gly Ile
65 70 75 80

Asp Thr Cys Arg Ser Met Val Ala Val Met Asp Ser Asp Thr Thr Gly
85 90 95

Lys Leu Gly Phe Glu Glu Phe Lys Tyr Leu Trp Asn Asn Ile Lys Arg
100 105 110

Trp Gln Ala Ile Tyr Lys Gln Phe Asp Thr Asp Arg Ser Gly Thr Ile
115 120 125

Cys Ser Ser Glu Leu Pro Gly Ala Phe Glu Ala Ala Gly Phe His Leu
130 135 140

Asn Glu His Leu Tyr Asn Met Ile Ile Arg Arg Tyr Ser Asp Glu Ser
145 150 155 160

969

Gly Asn Met Asp Phe Asp Asn Phe Ile Ser Cys Leu Val Arg Leu Asp
 165 170 175

Ala Met Phe Arg Ala Phe Lys Ser Leu Asp Lys Asp Gly Thr Gly Gln
 180 185 190

Ile Gln Val Asn Ile Gln Glu Trp Leu Gln Leu Thr Met Tyr Ser
 195 200 205

<210> 1002
<211> 21
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1002
Ile Phe Cys Asp Thr Arg Ser His Gln Val Ala Xaa Gly Trp Phe Arg
 1 5 10 15

Ile Pro Gly Leu Lys
 20

<210> 1003
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1003

970

Met Pro Gln Leu Gly Leu Ser Cys Ile Pro Val Glu Gly Pro Xaa Pro
 1 5 10 15
 Cys Leu Xaa Glu Val Arg Leu Cys Cys Val Asn Gly Gln Ala Leu Pro
 20 25 30
 Gln Pro Thr Pro Gly Lys Val His Leu Phe Ser Gly Leu Tyr Lys Val
 35 40 45
 Ser Trp Gly Pro Val Ala Ser Leu Pro Val Arg Ser Asp Phe Ser Leu
 50 55 60
 Ser Ser Ser Pro Val Gly Glu Thr Lys Pro Asp Trp Gly Ala Gln Gly
 65 70 75 80
 Glu His Gly Lys Gly Arg Leu Pro Cys Leu Ser Leu Ala Val Arg Val
 85 90 95
 Arg Val Thr His Thr Lys Xaa Glu Cys Gly Gln Gln Val
 100 105

<210> 1004

<211> 542

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (252)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (519)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1004

Lys Asp Pro Glu Glu Tyr Cys Cys Thr Pro Ala Ala Arg Gly Arg Gly
 1 5 10 15
 Lys Ser Ala Ala Leu Gly Leu Ala Ile Ala Gly Ala Val Ala Phe Gly
 20 25 30
 Tyr Ser Asn Ile Phe Val Thr Ser Pro Ser Pro Asp Asn Leu His Thr
 35 40 45
 Leu Phe Glu Phe Val Phe Lys Gly Phe Asp Ala Leu Gln Tyr Gln Glu
 50 55 60

His 65	Leu	Asp	Tyr	Glu	Ile	Ile	Gln	Ser	Leu	Asn	Pro	Glu	Phe	Asn	Lys	80
Ala	Val	Ile	Arg	Val	Asn	Val	Phe	Arg	Glu	His	Arg	Gln	Thr	Ile	Gln	85
Tyr	Ile	His	Pro	Ala	Asp	Ala	Val	Lys	Leu	Gly	Gln	Ala	Glu	Leu	Val	90
Val	Ile	Asp	Glu	Ala	Ala	Ala	Ile	Pro	Leu	Pro	Leu	Val	Lys	Ser	Leu	95
Leu	Gly	Pro	Tyr	Leu	Val	Phe	Met	Ala	Ser	Thr	Ile	Asn	Gly	Tyr	Glu	100
Gly	Thr	Gly	Arg	Ser	Leu	Ser	Leu	Lys	Leu	Ile	Gln	Gln	Leu	Arg	Gln	105
Gln	Ser	Ala	Gln	Ser	Gln	Val	Ser	Thr	Thr	Ala	Glu	Asn	Lys	Thr	Thr	110
Thr	Thr	Ala	Arg	Leu	Ala	Ser	Ala	Arg	Thr	Leu	His	Glu	Val	Ser	Leu	115
Gln	Glu	Ser	Ile	Arg	Tyr	Ala	Pro	Gly	Asp	Ala	Val	Glu	Lys	Trp	Leu	120
Asn	Asp	Leu	Leu	Cys	Leu	Asp	Cys	Leu	Asn	Ile	Thr	Arg	Ile	Val	Ser	125
Gly	Cys	Pro	Leu	Pro	Glu	Ala	Cys	Glu	Leu	Tyr	Tyr	Val	Asn	Arg	Asp	130
Thr	Leu	Phe	Cys	Tyr	His	Lys	Ala	Ser	Glu	Val	Xaa	Leu	Gln	Arg	Leu	135
Met	Ala	Leu	Tyr	Val	Ala	Ser	His	Tyr	Lys	Asn	Ser	Pro	Asn	Asp	Leu	140
Gln	Met	Leu	Ser	Asp	Ala	Pro	Ala	His	His	Leu	Phe	Cys	Leu	Leu	Pro	145
Pro	Val	Pro	Pro	Thr	Gln	Asn	Ala	Leu	Pro	Glu	Val	Leu	Ala	Val	Ile	150
Gln	Val	Cys	Leu	Glu	Gly	Glu	Ile	Ser	Arg	Gln	Ser	Ile	Leu	Asn	Ser	155
Leu	Ser	Arg	Gly	Lys	Lys	Ala	Ser	Gly	Asp	Leu	Ile	Pro	Trp	Thr	Val	160

972

Ser Glu Gln Phe Gln Asp Pro Asp Phe Gly Gly Leu Ser Gly Gly Arg
 340 345 350
 Val Val Arg Ile Ala Val His Pro Asp Tyr Gln Gly Met Gly Tyr Gly
 355 360 365
 Ser Arg Ala Leu Gln Leu Leu Gln Met Tyr Tyr Glu Gly Arg Phe Pro
 370 375 380
 Cys Leu Glu Glu Lys Val Leu Glu Thr Pro Gln Glu Ile His Thr Val
 385 390 395 400
 Ser Ser Glu Ala Val Ser Leu Leu Glu Glu Val Ile Thr Pro Arg Lys
 405 410 415
 Asp Leu Pro Pro Leu Leu Leu Lys Leu Asn Glu Arg Pro Ala Glu Arg
 420 425 430
 Leu Asp Tyr Leu Gly Val Ser Tyr Gly Leu Thr Pro Arg Leu Leu Lys
 435 440 445
 Phe Trp Lys Arg Ala Gly Phe Val Pro Val Tyr Leu Arg Gln Thr Pro
 450 455 460
 Asn Asp Leu Thr Gly Glu His Ser Cys Ile Met Leu Lys Thr Leu Thr
 465 470 475 480
 Asp Glu Asp Glu Ala Asp Gln Gly Gly Trp Leu Ala Ala Phe Trp Lys
 485 490 495
 Asp Phe Arg Arg Arg Phe Leu Ala Leu Leu Ser Tyr Gln Phe Ser Thr
 500 505 510
 Phe Ser Pro Ser Leu Ala Xaa Asn Ile Ile Gln Asn Arg Asn Met Gly
 515 520 525
 Lys Pro Ala Gln Pro Ala Leu Ser Arg Glu Glu Leu Glu Ala
 530 535 540

<210> 1005

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

973

<400> 1005

Asp Ala Ala Asp Thr Ile Glu Thr Asp Thr Ala Thr Ala Asp Thr Thr
 1 5 10 15

Val Ala Asn Asn Val Pro Pro Ala Ala Thr Ser Leu Ile Asp Leu Trp
 20 25 30

Pro Gly Asn Gly Glu Gly Ala Ser Thr Leu Gln Gly Glu Pro Arg Ala
 35 40 45

Pro Thr Pro Pro Ser Gly Thr Glu Val Thr Leu Ala Glu Val Pro Leu
 50 55 60

Leu Asp Glu Val Ala Pro Glu Pro Leu Leu Pro Ala Xaa Glu Gly Cys
 65 70 75 80

Ala Thr Leu Leu Asn Phe Asp Glu Leu Pro Glu Pro Pro Ala Thr Phe
 85 90 95

Cys Asp Pro Glu Glu Val Glu Gly Glu Pro Leu Ala Ala Pro Gln Thr
 100 105 110

Pro Thr Leu Pro Ser Ala Leu Glu Glu Leu Glu Gln Glu Gln Glu Pro
 115 120 125

Glu Pro His Leu Leu Thr Asn Gly Glu Thr Thr Gln Lys Glu Gly Thr
 130 135 140

Gln Ala Ser Glu Gly Tyr Phe Ser Gln Ser Gln Glu Glu Glu Phe Ala
 145 150 155 160

Gln Ser Glu Glu Leu Cys Ala Lys Ala Pro Pro Pro Val Phe Tyr Asn
 165 170 175

Lys Pro Pro Glu Ile Asp Ile Thr Cys Trp Asp Ala Asp Pro Val Pro
 180 185 190

Glu Glu Glu Glu Gly Phe Glu Gly Gly Asp
 195 200

<210> 1006

<211> 561

<212> PRT

<213> Homo sapiens

<400> 1006

Ser Ala Met Arg Lys Phe Ala Tyr Cys Lys Val Val Leu Ala Thr Ser
 1 5 10 15

974

Leu	Ile	Trp	Val	Leu	Leu	Asp	Met	Phe	Leu	Leu	Leu	Tyr	Phe	Ser	Glu	20	25	30	
Cys	Asn	Lys	Cys	Asp	Glu	Lys	Lys	Glu	Arg	Gly	Leu	Pro	Ala	Gly	Asp	35	40	45	
Val	Leu	Glu	Pro	Val	Gln	Lys	Pro	His	Glu	Gly	Pro	Gly	Glu	Met	Gly	50	55	60	
Lys	Pro	Val	Val	Ile	Pro	Lys	Glu	Asp	Gln	Glu	Lys	Met	Lys	Glu	Met	65	70	75	80
Phe	Lys	Ile	Asn	Gln	Phe	Asn	Leu	Met	Ala	Ser	Glu	Met	Ile	Ala	Leu	85	90	95	
Asn	Arg	Ser	Leu	Pro	Asp	Val	Arg	Leu	Glu	Gly	Cys	Lys	Thr	Lys	Val	100	105	110	
Tyr	Pro	Asp	Asn	Leu	Pro	Thr	Thr	Ser	Val	Val	Ile	Val	Phe	His	Asn	115	120	125	
Glu	Ala	Trp	Ser	Thr	Leu	Leu	Arg	Thr	Val	His	Ser	Val	Ile	Asn	Arg	130	135	140	
Ser	Pro	Arg	His	Met	Ile	Glu	Glu	Ile	Val	Leu	Val	Asp	Asp	Ala	Ser	145	150	155	160
Glu	Arg	Asp	Phe	Leu	Lys	Arg	Pro	Leu	Glu	Ser	Tyr	Val	Lys	Lys	Leu	165	170	175	
Lys	Val	Pro	Val	His	Val	Ile	Arg	Met	Glu	Gln	Arg	Ser	Gly	Leu	Ile	180	185	190	
Arg	Ala	Arg	Leu	Lys	Gly	Ala	Ala	Val	Ser	Lys	Gly	Gln	Val	Ile	Thr	195	200	205	
Phe	Leu	Asp	Ala	His	Cys	Glu	Cys	Thr	Val	Gly	Trp	Leu	Glu	Pro	Leu	210	215	220	
Leu	Ala	Arg	Ile	Lys	His	Asp	Arg	Arg	Thr	Val	Val	Cys	Pro	Ile	Ile	225	230	235	240
Asp	Val	Ile	Ser	Asp	Asp	Thr	Phe	Glu	Tyr	Met	Ala	Gly	Ser	Asp	Met	245	250	255	
Thr	Tyr	Gly	Gly	Phe	Asn	Trp	Lys	Leu	Asn	Phe	Arg	Trp	Tyr	Pro	Val	260	265	270	
Pro	Gln	Arg	Glu	Met	Asp	Arg	Arg	Lys	Gly	Asp	Arg	Thr	Leu	Pro	Val	275	280	285	

975

Arg Thr Pro Thr Met Ala Gly Gly Leu Phe Ser Ile Asp Arg Asp Tyr
 290 295 300

Phe Gln Glu Ile Gly Thr Tyr Asp Ala Gly Met Asp Ile Trp Gly Gly
 305 310 315 320

Glu Asn Leu Glu Ile Ser Phe Arg Ile Trp Gln Cys Gly Gly Thr Leu
 325 330 335

Glu Ile Val Thr Cys Ser His Val Gly His Val Phe Arg Lys Ala Thr
 340 345 350

Pro Tyr Thr Phe Pro Gly Gly Thr Gly Gln Ile Ile Asn Lys Asn Asn
 355 360 365

Arg Arg Leu Ala Glu Val Trp Met Asp Glu Phe Lys Asn Phe Phe Tyr
 370 375 380

Ile Ile Ser Pro Gly Val Thr Lys Val Asp Tyr Gly Asp Ile Ser Ser
 385 390 395 400

Arg Val Gly Leu Arg His Lys Leu Gln Cys Lys Pro Phe Ser Trp Tyr
 405 410 415

Leu Glu Asn Ile Tyr Pro Asp Ser Gln Ile Pro Arg His Tyr Phe Ser
 420 425 430

Leu Gly Glu Ile Arg Asn Val Glu Thr Asn Gln Cys Leu Asp Asn Met
 435 440 445

Ala Arg Lys Glu Asn Glu Lys Val Gly Ile Phe Asn Cys His Gly Met
 450 455 460

Gly Gly Asn Gln Val Phe Ser Tyr Thr Ala Asn Lys Glu Ile Arg Thr
 465 470 475 480

Asp Asp Leu Cys Leu Asp Val Ser Lys Leu Asn Gly Pro Val Thr Met
 485 490 495

Leu Lys Cys His His Leu Lys Gly Asn Gln Leu Trp Glu Tyr Asp Pro
 500 505 510

Val Lys Leu Thr Leu Gln His Val Asn Ser Asn Gln Cys Leu Asp Lys
 515 520 525

Ala Thr Glu Glu Asp Ser Gln Val Pro Ser Ile Arg Asp Cys Asn Gly
 530 535 540

Ser Arg Ser Gln Gln Trp Leu Leu Arg Asn Val Thr Leu Pro Glu Ile
 545 550 555 560

976

Phe

<210> 1007

<211> 189

<212> PRT

<213> Homo sapiens

<400> 1007

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Phe Ile Pro Ile Gly Glu Asn Ser Ala Thr Gly Glu Asn Arg Leu Ala
  1             5             10             15

Ser Ala Leu Trp Ile Gly Asp Arg Ser Tyr Pro Gly Leu Ser Glu Gly
      20             25             30

Asn Ser Arg Pro Pro Ile Pro Gly Pro Pro Tyr Val Ala Ser Pro Asp
      35             40             45

Leu Trp Ser His Trp Glu Asp Ser Ala Leu Pro Pro Pro Ser Leu Arg
      50             55             60

Pro Val Gln Pro Thr Trp Glu Gly Ser Ser Glu Ala Gly Leu Asp Trp
      65             70             75             80

Ala Gly Ala Ser Phe Ser Pro Gly Thr Pro Met Trp Ala Ala Leu Asp
      85             90             95

Glu Gln Met Leu Gln Glu Gly Ile Gln Ala Ser Leu Leu Asp Gly Pro
      100             105             110

Ala Gln Glu Pro Gln Ser Ala Pro Trp Leu Ser Lys Ser Ser Val Ser
      115             120             125

Ser Leu Arg Leu Gln Gln Leu Glu Arg Met Gly Phe Pro Thr Glu Gln
      130             135             140

Ala Val Val Ala Leu Ala Ala Thr Gly Arg Val Glu Gly Ala Val Ser
      145             150             155             160

Leu Leu Val Gly Gly Gln Val Gly Thr Glu Thr Leu Val Thr His Gly
      165             170             175

Lys Gly Gly Pro Ala His Ser Glu Gly Pro Gly Pro Pro
      180             185

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<210> 1008

<211> 300

977

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1008

Arg	Gln	Lys	Ser	Ser	Xaa	Leu	Trp	Pro	His	Pro	Leu	Xaa	Arg	His	Arg
1				5					10					15	

Ala	Gly	Pro	Gly	Leu	Ala	Gly	Asn	Gly	Gly	Ile	Leu	Pro	Asn	Leu	Gly
			20					25					30		

Asp	Gly	Gly	Gly	Gly	Trp	Xaa	Trp	Trp	Glu	Gly	Asn	His	Val	Leu	Leu
			35				40					45			

Asn	Leu	Phe	Leu	Val	Pro	Pro	Ile	Pro	Arg	Pro	Thr	Arg	His	His	Thr
	50					55					60				

Ala	Asp	Asn	Thr	His	Pro	Leu	Ala	Gln	Ala	Ser	Ile	His	Met	Cys	Cys
65					70				75					80	

Thr	Phe	Ser	Ser	Arg	His	Ala	Asp	Asn	Pro	Thr	Arg	Pro	His	His	His
				85					90					95	

Met	Pro	Lys	Cys	Thr	His	Thr	Glu	Pro	His	Arg	Pro	Ser	Gly	Pro	Ala
			100					105					110		

Gly	Ser	Ser	Leu	Gly	Phe	Pro	Leu	Ala	His	Phe	Gln	Gly	Pro	Gly	Ala
			115				120					125			

Ala	Thr	Lys	Cys	Glu	Ser	Ser	Val	Ala	Ala	Pro	Ser	Phe	Ser	Pro	Ser
	130					135					140				

Thr	Ser	Ile	Gly	Pro	Ile	Gly	Lys	His	Arg	Gly	Leu	Thr	Leu	Phe	His
145					150					155					160

Ile	Pro	Cys	Pro	Ala	Leu	Lys	Trp	Thr	Ile	Thr	Phe	Trp	Asp	Arg	Leu
				165					170						175

978

Lys Phe Leu Lys Ser Leu His His Ser Val Pro Ser Lys Gly Ser Pro
 180 185 190
 Cys Gln Trp Gly Phe Glu Arg Glu Phe Leu Glu Pro Thr Phe Lys Phe
 195 200 205
 Cys Leu Ile Trp Arg Glu Thr Lys Ile Gly Arg Gly Lys Arg Thr Pro
 210 215 220
 Asp Val Leu Leu Leu Pro Glu Ile Leu Glu Thr Asp Ser Leu Asp Trp
 225 230 235 240
 Lys Met Asp Lys Ser Ala Leu Thr Trp Arg Val Gly Thr Arg Trp Gly
 245 250 255
 Pro Ala Leu Pro Thr Ala Ala Val Ala Ser Ser Leu Ala Gly Phe Ala
 260 265 270
 Gly Arg Gln Gln Glu Gly Glu Gly Gly Ser Thr Ala Arg Gly Thr Gly
 275 280 285
 Gly Ala Ala Gly Leu Gln Glu Leu Phe Phe His Cys
 290 295 300

<210> 1009

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1009

Arg Pro Pro Cys Pro His Ser Arg Ser Xaa Trp Arg Ile Leu Ser Leu
 1 5 10 15

Thr Pro Asn Pro Asp Pro Leu Pro Asn Met Ser Val Phe Phe Phe Ile
 20 25 30

Phe Leu Asn Ile Phe Xaa Leu Ala Phe Ser Ser Pro Gly Ser Gln Pro
 35 40 45

Leu Leu Asn Ser Pro Pro Ser Phe Val Cys Trp Ser Arg Gly Phe Met
 50 55 60
 Glu Met Asn Gly Arg Gly Glu Leu Val Glu Ser Leu Lys Arg Phe Cys
 65 70 75 80
 Ala Ser Thr Arg Leu Pro Pro Thr Pro Leu Leu Leu Phe Pro Glu Glu
 85 90 95
 Glu Ala Thr Asn Gly Arg Glu Gly Leu Leu Arg Phe Ser Ser Trp Pro
 100 105 110
 Phe Ser Ile Gln Asp Val Val Gln Pro Leu Thr Leu Gln Val Gln Arg
 115 120 125
 Pro Leu Val Ser Val Thr Val Ser Asp Ala Ser Trp Val Ser Glu Leu
 130 135 140
 Leu Trp Ser Leu Phe Val Pro Phe Thr Val Tyr Gln Val Arg Trp Leu
 145 150 155 160
 Arg Pro Val His Arg Gln Leu Gly Glu Ala Asn Glu Glu Phe Ala Leu
 165 170 175
 Arg Val Gln Gln Leu Val Ala Lys Glu Leu Gly Gln Thr Gly Thr Arg
 180 185 190
 Leu Thr Pro Ala Asp Lys Ala Glu His Met Lys Arg Gln Arg His Pro
 195 200 205
 Arg Leu Arg Pro Gln Ser Ala Gln Ser Ser Phe Pro Pro Ser Pro Gly
 210 215 220
 Pro Ser Pro Asp Val Gln Leu Ala Thr Leu Ala Gln Arg Val Lys Glu
 225 230 235 240
 Val Leu Pro His Val Pro Leu Gly Val Ile Gln Arg Asp Leu Ala Lys
 245 250 255
 Thr Gly Cys Val Asp Leu Thr Ile Thr Asn Leu Leu Glu Gly Ala Val
 260 265 270
 Ala Phe Met Pro Glu Asp Ile Thr Lys Gly Thr Gln Ser Leu Pro Thr
 275 280 285
 Ala Ser Ala Ser Lys Phe Pro Ser Ser Gly Pro Val Thr Pro Gln Pro
 290 295 300
 Thr Ala Leu Thr Phe Ala Lys Ser Ser Trp Ala Arg Gln Glu Ser Leu
 305 310 315 320

980

Gln Glu Arg Lys Gln Ala Leu Tyr Glu Tyr Ala Arg Arg Arg Phe Thr
 325 330 335

Glu Arg Arg Ala Gln Glu Ala Asp
 340

<210> 1010

<211> 233

<212> PRT

<213> Homo sapiens

<400> 1010

Pro His Cys Glu Pro Asn Pro Gly Ala Gly Ala Met Val Leu Leu His
 1 5 10 15

Val Leu Phe Glu His Ala Val Gly Tyr Ala Leu Leu Ala Leu Lys Glu
 20 25 30

Val Glu Glu Ile Ser Leu Leu Gln Pro Gln Val Glu Glu Ser Val Leu
 35 40 45

Asn Leu Gly Lys Phe His Ser Ile Val Arg Leu Val Ala Phe Cys Pro
 50 55 60

Phe Ala Ser Ser Gln Val Ala Leu Glu Asn Ala Asn Ala Val Ser Glu
 65 70 75 80

Gly Val Val His Glu Asp Leu Arg Leu Leu Leu Glu Thr His Leu Pro
 85 90 95

Ser Lys Lys Lys Lys Val Leu Leu Gly Val Gly Asp Pro Lys Ile Gly
 100 105 110

Ala Ala Ile Gln Glu Glu Leu Gly Tyr Asn Cys Gln Thr Gly Gly Val
 115 120 125

Ile Ala Glu Ile Leu Arg Gly Val Arg Leu His Phe His Asn Leu Val
 130 135 140

Lys Gly Leu Thr Asp Leu Ser Ala Cys Lys Ala Gln Leu Gly Leu Gly
 145 150 155 160

His Ser Tyr Ser Arg Ala Lys Val Lys Phe Asn Val Asn Arg Val Asp
 165 170 175

Asn Met Ile Ile Gln Ser Ile Ser Leu Leu Asp Gln Leu Asp Lys Asp
 180 185 190

981

Ile Asn Thr Phe Ser Met Arg Val Arg Glu Trp Tyr Gly Tyr His Phe
 195 200 205

Pro Glu Leu Val Lys Ile Ile Asn Asp Asn Ala Thr Tyr Cys Arg Leu
 210 215 220

Ala Gln Phe Ile Gly Asn Arg Arg Asn
 225 230

<210> 1011

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1011

Gly Thr Ser Xaa Phe Ser Phe Pro Leu Gly Arg Glu Glu Ala Met Ala
 1 5 10 15

Ala Met Ala Ser Leu Gly Ala Leu Ala Leu Leu Leu Leu Ser Ser Leu
 20 25 30

Ser Arg Cys Ser Ala Glu Ala Cys Leu Glu Pro Gln Ile Thr Pro Ser
 35 40 45

Tyr Tyr Thr Thr Ser Asp Ala Val Ile Ser Thr Glu Thr Val Phe Ile
 50 55 60

Val Glu Ile Ser Leu Thr Cys Lys Asn Arg Val Gln Asn Met Ala Leu
 65 70 75 80

Tyr Ala Asp Val Gly Gly Lys Gln Phe Pro Val Thr Arg Gly Gln Asp
 85 90 95

Val Gly Arg Tyr Gln Val Ser Trp Ser Leu Asp His Lys Ser Ala His
 100 105 110

Ala Gly Thr Tyr Glu Val Arg Phe Phe Asp Glu Glu Ser Tyr Ser Leu
 115 120 125

Leu Arg Lys Ala Gln Arg Asn Asn Glu Asp Ile Ser Ile Ile Pro Pro
 130 135 140

Leu Phe Thr Val Ser Val Asp His Arg Gly Thr Trp Asn Gly Pro Trp
 145 150 155 160

982

Val Ser Thr Glu Val Leu Ala Ala Ala Ile Gly Leu Val Ile Tyr Tyr
 165 170 175

Leu Ala Phe Ser Ala Lys Ser His Ile Gln Ala
 180 185

<210> 1012

<211> 708

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (433)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1012

Ala Leu Arg Pro Ile Ser Ser Val Arg Ala Gly Asp Arg Cys Gln Arg
 1 5 10 15

Ser Xaa Ala Ala Asp Met Ala Ala Ser Thr Ala Ala Gly Lys Gln Arg
 20 25 30

Ile Pro Lys Val Ala Lys Val Lys Asn Lys Ala Pro Ala Glu Val Gln
 35 40 45

Ile Thr Ala Glu Gln Leu Leu Arg Glu Ala Lys Glu Arg Glu Leu Glu
 50 55 60

Leu Leu Pro Pro Pro Pro Gln Gln Lys Ile Thr Asp Glu Glu Glu Leu
 65 70 75 80

Asn Asp Tyr Lys Leu Arg Lys Arg Lys Thr Phe Glu Asp Asn Ile Arg

983

										85											90											95	
Lys	Asn	Arg	Thr	Val	Ile	Ser	Asn	Trp	Ile	Lys	Tyr	Ala	Gln	Trp	Glu																		
										100											105											110	
Glu	Ser	Leu	Lys	Glu	Ile	Gln	Arg	Ala	Arg	Ser	Ile	Tyr	Glu	Arg	Ala																		
										115											120											125	
Leu	Asp	Val	Asp	Tyr	Arg	Asn	Ile	Thr	Leu	Trp	Leu	Lys	Tyr	Ala	Glu																		
										130											135											140	
Met	Glu	Met	Lys	Asn	Arg	Gln	Val	Xaa	His	Ala	Arg	Asn	Ile	Trp	Asp																		
										145											150											155	160
Arg	Ala	Ile	Thr	Thr	Leu	Pro	Arg	Val	Asn	Gln	Phe	Trp	Tyr	Lys	Tyr																		
															165						170						175						
Thr	Tyr	Met	Glu	Glu	Met	Leu	Gly	Asn	Val	Ala	Gly	Ala	Arg	Gln	Val																		
										180											185											190	
Phe	Glu	Arg	Trp	Met	Glu	Trp	Gln	Pro	Glu	Glu	Gln	Ala	Trp	His	Ser																		
										195											200											205	
Tyr	Ile	Asn	Phe	Glu	Leu	Arg	Tyr	Lys	Glu	Val	Asp	Arg	Ala	Arg	Thr																		
										210											215											220	
Ile	Tyr	Glu	Arg	Xaa	Val	Leu	Val	His	Pro	Asp	Val	Lys	Asn	Trp	Ile																		
										225											230											235	240
Lys	Tyr	Ala	Arg	Phe	Glu	Glu	Lys	His	Ala	Tyr	Phe	Ala	His	Ala	Arg																		
															245						250						255						
Lys	Val	Tyr	Glu	Arg	Ala	Val	Glu	Phe	Phe	Gly	Asp	Glu	His	Met	Asp																		
										260											265											270	
Glu	His	Leu	Tyr	Val	Ala	Phe	Ala	Lys	Phe	Glu	Glu	Asn	Gln	Lys	Glu																		
										275											280											285	
Phe	Glu	Arg	Val	Arg	Val	Ile	Tyr	Lys	Tyr	Ala	Leu	Asp	Arg	Ile	Ser																		
										290											295											300	
Lys	Gln	Asp	Ala	Gln	Glu	Leu	Phe	Lys	Asn	Tyr	Thr	Ile	Phe	Glu	Lys																		
										305											310											315	320
Lys	Phe	Gly	Asp	Arg	Arg	Gly	Ile	Glu	Asp	Ile	Ile	Val	Ser	Lys	Arg																		
															325						330						335						
Arg	Phe	Gln	Tyr	Glu	Glu	Glu	Val	Lys	Ala	Asn	Pro	His	Asn	Tyr	Asp																		
										340											345											350	
Ala	Trp	Phe	Asp	Tyr	Leu	Arg	Leu	Val	Glu	Ser	Asp	Ala	Glu	Ala	Glu																		

355	360	365
Ala Val Arg Glu Val Tyr Glu Arg Ala Ile Ala Asn Val Pro Pro Ile		
370	375	380
Gln Glu Lys Arg His Trp Lys Arg Tyr Ile Tyr Leu Trp Ile Asn Tyr		
385	390	395
Ala Leu Tyr Glu Glu Leu Glu Ala Lys Asp Pro Glu Arg Thr Arg Gln		
	405	410
		415
Val Tyr Gln Ala Ser Leu Glu Leu Ile Pro His Lys Lys Phe Thr Phe		
	420	425
		430
Xaa Lys Met Trp Ile Leu Tyr Ala Gln Phe Glu Ile Arg Gln Lys Asn		
	435	440
		445
Leu Ser Leu Ala Arg Arg Ala Leu Gly Thr Ser Ile Gly Lys Cys Pro		
	450	455
		460
Lys Asn Lys Leu Phe Lys Val Tyr Ile Glu Leu Glu Leu Gln Leu Arg		
465	470	475
		480
Glu Phe Asp Arg Cys Arg Lys Leu Tyr Glu Lys Phe Leu Glu Phe Gly		
	485	490
		495
Pro Glu Asn Cys Thr Ser Trp Ile Lys Phe Ala Glu Leu Glu Thr Ile		
	500	505
		510
Leu Gly Asp Ile Asp Arg Ala Arg Ala Ile Tyr Glu Leu Ala Ile Ser		
	515	520
		525
Gln Pro Arg Leu Asp Met Pro Glu Val Leu Trp Lys Ser Tyr Ile Asp		
	530	535
		540
Phe Glu Ile Glu Gln Glu Glu Thr Glu Arg Thr Arg Asn Leu Tyr Arg		
545	550	555
		560
Arg Leu Leu Gln Arg Thr Gln His Val Lys Val Trp Ile Ser Phe Ala		
	565	570
		575
Gln Phe Glu Leu Ser Ser Gly Lys Glu Gly Ser Leu Thr Lys Cys Arg		
	580	585
		590
Gln Ile Tyr Glu Glu Ala Asn Lys Thr Met Arg Asn Cys Glu Glu Lys		
	595	600
		605
Glu Glu Arg Leu Met Leu Leu Glu Ser Trp Arg Ser Phe Glu Glu Glu		
610	615	620
Phe Gly Thr Ala Ser Asp Lys Glu Arg Val Asp Lys Leu Met Pro Glu		

985

625 630 635 640
 Lys Val Lys Lys Arg Arg Lys Val Gln Thr Asp Asp Gly Ser Asp Ala
 645 650 655
 Gly Trp Glu Glu Tyr Phe Asp Tyr Ile Phe Pro Glu Asp Ala Ala Asn
 660 665 670
 Gln Pro Asn Leu Lys Leu Leu Ala Met Ala Lys Leu Trp Lys Lys Gln
 675 680 685
 Gln Gln Glu Lys Glu Asp Ala Glu His His Pro Asp Glu Asp Val Asp
 690 695 700
 Glu Ser Glu Ser
 705

<210> 1013
 <211> 183
 <212> PRT
 <213> Homo sapiens

<400> 1013
 Leu Pro Pro Gln Val Ala Asp Thr Met Leu Pro Pro Met Ala Leu Pro
 1 5 10 15
 Ser Val Ser Trp Met Leu Leu Ser Cys Leu Met Leu Leu Ser Gln Val
 20 25 30
 Gln Gly Glu Glu Pro Gln Arg Glu Leu Pro Ser Ala Arg Ile Arg Cys
 35 40 45
 Pro Lys Gly Ser Lys Ala Tyr Gly Ser His Cys Tyr Ala Leu Phe Leu
 50 55 60
 Ser Pro Lys Ser Trp Thr Asp Ala Asp Leu Ala Cys Gln Lys Arg Pro
 65 70 75 80
 Ser Gly Asn Leu Val Ser Val Leu Ser Gly Ala Glu Gly Ser Phe Val
 85 90 95
 Ser Ser Leu Val Lys Ser Ile Gly Asn Ser Tyr Ser Tyr Val Trp Ile
 100 105 110
 Gly Leu His Asp Pro Thr Gln Gly Thr Glu Pro Asn Gly Glu Gly Trp
 115 120 125
 Glu Trp Ser Ser Ser Asp Val Met Asn Tyr Phe Ala Trp Glu Arg Asn
 130 135 140

986

Pro Ser Thr Ile Ser Ser Pro Gly His Cys Ala Ser Leu Ser Arg Ser
 145 150 155 160

Thr Ala Phe Leu Arg Trp Lys Asp Tyr Asn Cys Asn Val Arg Leu Pro
 165 170 175

Tyr Val Cys Lys Phe Thr Asp
 180

<210> 1014

<211> 213

<212> PRT

<213> Homo sapiens

<400> 1014

Val Thr Asp Gly Gly Ser Ala Arg Lys Pro Lys Met Ala Val Pro Ala
 1 5 10 15

Ala Leu Ile Leu Arg Glu Ser Pro Ser Met Lys Lys Ala Val Ser Leu
 20 25 30

Ile Asn Ala Ile Asp Thr Gly Arg Phe Pro Arg Leu Leu Thr Arg Ile
 35 40 45

Leu Gln Lys Leu His Leu Lys Ala Glu Ser Ser Phe Ser Glu Glu Glu
 50 55 60

Glu Glu Lys Leu Gln Ala Ala Phe Ser Leu Glu Lys Gln Asp Leu His
 65 70 75 80

Leu Val Leu Glu Thr Ile Ser Phe Ile Leu Glu Gln Ala Val Tyr His
 85 90 95

Asn Val Lys Pro Ala Ala Leu Gln Gln Gln Leu Glu Asn Ile His Leu
 100 105 110

Arg Gln Asp Lys Ala Glu Ala Phe Val Asn Thr Trp Ser Ser Met Gly
 115 120 125

Gln Glu Thr Val Glu Lys Phe Arg Gln Arg Ile Leu Ala Pro Cys Lys
 130 135 140

Leu Glu Thr Val Gly Trp Gln Leu Asn Leu Gln Met Ala His Ser Ala
 145 150 155 160

Gln Ala Lys Leu Lys Ser Pro Gln Ala Val Leu Gln Leu Gly Val Asn
 165 170 175

987

Asn Glu Asp Ser Lys Ser Leu Glu Lys Val Leu Val Glu Phe Ser His
 180 185 190

Lys Glu Leu Phe Asp Phe Tyr Asn Lys Leu Glu Thr Ile Gln Ala Gln
 195 200 205

Leu Asp Ser Leu Thr
 210

<210> 1015

<211> 544

<212> PRT

<213> Homo sapiens

<400> 1015

Ala Pro Gly Thr Met Asn Gly Glu Ala Ile Cys Ser Ala Leu Pro Thr
 1 5 10 15

Ile Pro Tyr His Lys Leu Ala Asp Leu Arg Tyr Leu Ser Arg Gly Ala
 20 25 30

Ser Gly Thr Val Ser Ser Ala Arg His Ala Asp Trp Arg Val Gln Val
 35 40 45

Ala Val Lys His Leu His Ile His Thr Pro Leu Leu Asp Ser Glu Arg
 50 55 60

Lys Asp Val Leu Arg Glu Ala Glu Ile Leu His Lys Ala Arg Phe Ser
 65 70 75 80

Tyr Ile Leu Pro Ile Leu Gly Ile Cys Asn Glu Pro Glu Phe Leu Gly
 85 90 95

Ile Val Thr Glu Tyr Met Pro Asn Gly Ser Leu Asn Glu Leu Leu His
 100 105 110

Arg Lys Thr Glu Tyr Pro Asp Val Ala Trp Pro Leu Arg Phe Arg Ile
 115 120 125

Leu His Glu Ile Ala Leu Gly Val Asn Tyr Leu His Asn Met Thr Pro
 130 135 140

Pro Leu Leu His His Asp Leu Lys Thr Gln Asn Ile Leu Leu Asp Asn
 145 150 155 160

Glu Phe His Val Lys Ile Ala Asp Phe Gly Leu Ser Lys Trp Arg Met
 165 170 175

Met Ser Leu Ser Gln Ser Arg Ser Ser Lys Ser Ala Pro Glu Gly Gly

180	185	190
Thr Ile Ile Tyr Met Pro Pro Glu Asn Tyr Glu Pro Gly Gln Lys Ser		
195	200	205
Arg Ala Ser Ile Lys His Asp Ile Tyr Ser Tyr Ala Val Ile Thr Trp		
210	215	220
Glu Val Leu Ser Arg Lys Gln Pro Phe Glu Asp Val Thr Asn Pro Leu		
225	230	235
Gln Ile Met Tyr Ser Val Ser Gln Gly His Arg Pro Val Ile Asn Glu		
245	250	255
Glu Ser Leu Pro Tyr Asp Ile Pro His Arg Ala Arg Met Ile Ser Leu		
260	265	270
Ile Glu Ser Gly Trp Ala Gln Asn Pro Asp Glu Arg Pro Ser Phe Leu		
275	280	285
Lys Cys Leu Ile Glu Leu Glu Pro Val Leu Arg Thr Phe Glu Glu Ile		
290	295	300
Thr Phe Leu Glu Ala Val Ile Gln Leu Lys Lys Thr Lys Leu Gln Ser		
305	310	315
Val Ser Ser Ala Ile His Leu Cys Asp Lys Lys Lys Met Glu Leu Ser		
325	330	335
Leu Asn Ile Pro Val Asn His Gly Pro Gln Glu Glu Ser Cys Gly Ser		
340	345	350
Ser Gln Leu His Glu Asn Ser Gly Ser Pro Glu Thr Ser Arg Ser Leu		
355	360	365
Pro Ala Pro Gln Asp Asn Asp Phe Leu Ser Arg Lys Ala Gln Asp Cys		
370	375	380
Tyr Phe Met Lys Leu His His Cys Pro Gly Asn His Ser Trp Asp Ser		
385	390	395
Thr Ile Ser Gly Ser Gln Arg Ala Ala Phe Cys Asp His Lys Thr Thr		
405	410	415
Pro Cys Ser Ser Ala Ile Ile Asn Pro Leu Ser Thr Ala Gly Asn Ser		
420	425	430
Glu Arg Leu Gln Pro Gly Ile Ala Gln Gln Trp Ile Gln Ser Lys Arg		
435	440	445
Glu Asp Ile Val Asn Gln Met Thr Glu Ala Cys Leu Asn Gln Ser Leu		

989

450 455 460
 Asp Ala Leu Leu Ser Arg Asp Leu Ile Met Lys Glu Asp Tyr Glu Leu
 465 470 475 480
 Val Ser Thr Lys Pro Thr Arg Thr Ser Lys Val Arg Gln Leu Leu Asp
 485 490 495
 Thr Thr Asp Ile Gln Gly Glu Glu Phe Ala Lys Val Ile Val Gln Lys
 500 505 510
 Leu Lys Asp Asn Lys Gln Met Gly Leu Gln Pro Tyr Pro Glu Ile Leu
 515 520 525
 Val Val Ser Arg Ser Pro Ser Leu Asn Leu Leu Gln Asn Lys Ser Met
 530 535 540

<210> 1016

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1016

His Pro Ser Ala Pro Arg Ala Gly Lys Ala His Leu Lys Arg Ala Ile
 1 5 10 15
 Leu Gly Gln Glu Glu Ala Leu Arg Leu His Ala Leu Cys Arg Val Leu
 20 25 30
 Arg Glu Val Asp Leu Leu Arg Ala Val Ile Ser Gln Thr Leu Gln Arg
 35 40 45
 Ser Leu Ala Lys Tyr Ala Glu Leu Asp Arg Glu Asp Asp Phe Cys Glu
 50 55 60
 Ala Ala Glu Ala Pro Asp Ile Gln Pro Lys Thr His Gln Lys Pro Glu
 65 70 75 80
 Ala Arg Met Pro Arg Leu Ser Gln Gly Lys Gly Pro Asp Ile Phe His
 85 90 95
 Arg Leu Gly Pro Leu Ser Val Phe Ser Ala Lys Asn Arg Trp Arg Leu
 100 105 110
 Val Gly Pro Val His Leu Thr Arg Gly Glu Gly Gly Phe Gly Leu Thr
 115 120 125

990

Leu Arg Gly Asp Ser Pro Val Leu Ile Ala Ala Val Ile Pro Gly Ser
 130 135 140
 Gln Ala Ala Ala Ala Gly Leu Lys Glu Gly Asp Tyr Ile Val Ser Val
 145 150 155 160
 Asn Gly Gln Pro Cys Arg Trp Trp Arg His Ala Glu Val Val Thr Glu
 165 170 175
 Leu Lys Ala Ala Gly Glu Ala Gly Ala Ser Leu Gln Val Val Ser Leu
 180 185 190
 Leu Pro Ser Ser Arg Leu Pro Ser Leu Gly Asp Arg Arg Pro Val Leu
 195 200 205
 Leu Gly Pro Arg Gly Leu Leu Arg Ser Gln Arg Glu His Gly Cys Lys
 210 215 220
 Thr Pro Ala Ser Thr Trp Ala Ser Pro Arg Ala Leu Leu Asn Trp Ser
 225 230 235 240
 Arg Lys Ala Gln Gln Gly Lys Thr Gly Gly Cys Pro Ser Pro Val Pro
 245 250 255

Gln

<210> 1017
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 1017
 Ala Ser Asp Arg Arg Gly Tyr Ser Ser Arg Ile Val Gly Gly Asn Met
 1 5 10 15
 Ser Leu Leu Ser Gln Trp Pro Trp Gln Ala Ser Leu Gln Phe Gln Gly
 20 25 30
 Tyr His Leu Cys Gly Gly Ser Val Ile Thr Pro Leu Trp Ile Ile Thr
 35 40 45
 Ala Ala His Cys Val Tyr Asp Leu Tyr Leu Pro Lys Ser Trp Thr Ile
 50 55 60
 Gln Val Gly Leu Val Ser Leu Leu Asp Asn Pro Ala Pro Ser His Leu
 65 70 75 80

991

Val Glu Lys Ile Val Tyr His Ser Lys Tyr Lys Pro Lys Arg Leu Gly
 85 90 95
 Asn Asp Ile Ala Leu Met Lys Leu Ala Gly Pro Leu Thr Phe Asn Glu
 100 105 110
 Met Ile Gln Pro Val Cys Leu Pro Asn Ser Glu Glu Asn Phe Pro Asp
 115 120 125
 Gly Lys Val Cys Trp Thr Ser Gly Trp Gly Ala Thr Glu Asp Gly Ala
 130 135 140
 Gly Asp Ala Ser Pro Val Leu Asn His Ala Ala Val Pro Leu Ile Ser
 145 150 155 160
 Asn Lys Ile Cys Asn His Arg Asp Val Tyr Gly Gly Ile Ile Ser Pro
 165 170 175
 Ser Met Leu Cys Ala Gly Tyr Leu Thr Gly Gly Val Asp Ser Cys Gln
 180 185 190
 Gly Asp Ser Gly Gly Pro Leu Val Cys Gln Glu Arg Arg Leu Trp Lys
 195 200 205
 Leu Val Gly Ala Thr Ser Phe Gly Ile Gly Cys Ala Glu Val Asn Lys
 210 215 220
 Pro Gly Val Tyr Thr Arg Val Thr Ser Phe Leu Asp Trp Ile His Glu
 225 230 235 240
 Gln Met Glu Arg Asp Leu Lys Thr
 245

<210> 1018

<211> 224

<212> PRT

<213> Homo sapiens

<400> 1018

Gly Arg Val Ser Ala Pro Val Pro Gly Lys Met Val Leu Gly Gly Cys
 1 5 10 15
 Pro Val Ser Tyr Leu Leu Leu Cys Gly Gln Ala Ala Leu Leu Leu Gly
 20 25 30
 Asn Leu Leu Leu Leu His Cys Val Ser Arg Ser His Ser Gln Asn Ala
 35 40 45
 Thr Ala Glu Pro Glu Leu Thr Ser Ala Gly Ala Ala Gln Pro Glu Gly

992

50		55		60
Pro Gly Gly Ala Ala Ser Trp Glu Tyr Gly Asp Pro His Ser Pro Val				
65		70		75
Ile Leu Cys Ser Tyr Leu Pro Asp Glu Phe Ile Glu Cys Glu Asp Pro				
	85		90	95
Val Asp His Val Gly Asn Ala Thr Ala Ser Gln Glu Leu Gly Tyr Gly				
	100		105	110
Cys Leu Lys Phe Gly Gly Gln Ala Tyr Ser Asp Val Glu His Thr Ser				
	115		120	125
Val Gln Cys His Ala Leu Asp Gly Ile Glu Cys Ala Ser Pro Arg Thr				
	130		135	140
Phe Leu Arg Glu Asn Lys Pro Cys Ile Lys Tyr Thr Gly His Tyr Phe				
145		150		155
Ile Thr Thr Leu Leu Tyr Ser Phe Phe Leu Gly Cys Phe Gly Val Asp				
	165		170	175
Arg Phe Cys Leu Gly His Thr Gly Thr Ala Val Gly Lys Leu Leu Thr				
	180		185	190
Leu Gly Gly Leu Gly Ile Trp Trp Phe Val Asp Leu Ile Leu Leu Ile				
	195		200	205
Thr Gly Gly Leu Met Pro Ser Asp Gly Ser Asn Trp Cys Thr Val Tyr				
	210		215	220

<210> 1019

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1019

Asn Val Pro Val Cys His Leu Ser Thr Trp Lys Ile Leu Tyr Ile Trp				
1		5		10
Lys Val Tyr Ala Ser Leu Asn Lys Tyr Met Leu Leu Asn Lys Pro Tyr				
	20		25	30
His Ser Leu Arg Asn Cys Ile Tyr Phe Ile Ile Cys Pro Phe Arg Asn				
	35		40	45

993

Gln Val Phe Cys Ile
50

<210> 1020
<211> 70
<212> PRT
<213> Homo sapiens

<400> 1020
Phe Tyr Thr Asn Leu Ile Trp Leu Pro Phe Val Pro Leu Ile Ser Gln
1 5 10 15
Met Phe Lys Cys Ile Gly Phe Gly Phe Ser Met Tyr Lys Leu Pro Tyr
20 25 30
Leu Leu Met Ser Ile Phe Cys Leu Phe Asn Phe Val Tyr Leu Leu Phe
35 40 45
Cys Phe Trp Ile His Phe Leu Ile Arg Ser His Met Ile Asn Ile Ile
50 55 60
Ser Ile Val Ile Ile Pro
65 70

<210> 1021
<211> 337
<212> PRT
<213> Homo sapiens

<400> 1021
Arg Lys Arg Lys Gln Ala Ala Arg Ala Ala Glu Glu Pro Gly Ala Ala
1 5 10 15
Met Asp Val Arg Ala Leu Pro Trp Leu Pro Trp Leu Leu Trp Leu Leu
20 25 30
Cys Arg Gly Gly Gly Asp Ala Asp Ser Arg Ala Pro Phe Thr Pro Thr
35 40 45
Trp Pro Arg Ser Arg Glu Arg Glu Ala Ala Ala Phe Arg Glu Ser Leu
50 55 60
Asn Arg His Arg Tyr Leu Asn Ser Leu Phe Pro Ser Glu Asn Ser Thr
65 70 75 80
Ala Phe Tyr Gly Ile Asn Gln Phe Ser Tyr Leu Phe Pro Glu Glu Phe

85							90							95						
Lys	Ala	Ile	Tyr	Leu	Arg	Ser	Lys	Pro	Ser	Lys	Phe	Pro	Arg	Tyr	Ser					
			100				105						110							
Ala	Glu	Val	His	Met	Ser	Ile	Pro	Asn	Val	Ser	Leu	Pro	Leu	Arg	Phe					
			115				120						125							
Asp	Trp	Arg	Asp	Lys	Gln	Val	Val	Thr	Gln	Val	Arg	Asn	Gln	Gln	Met					
			130				135						140							
Cys	Gly	Gly	Cys	Trp	Ala	Phe	Ser	Val	Val	Gly	Ala	Val	Glu	Ser	Ala					
145				150						155			160							
Tyr	Ala	Ile	Lys	Gly	Lys	Pro	Leu	Glu	Asp	Leu	Ser	Val	Gln	Gln	Val					
			165						170						175					
Ile	Asp	Cys	Ser	Tyr	Asn	Asn	Tyr	Gly	Cys	Asn	Gly	Gly	Ser	Thr	Leu					
			180						185						190					
Asn	Ala	Leu	Asn	Trp	Leu	Asn	Lys	Met	Gln	Val	Lys	Leu	Val	Lys	Asp					
			195						200						205					
Ser	Glu	Tyr	Pro	Phe	Lys	Ala	Gln	Asn	Gly	Leu	Cys	His	Tyr	Phe	Ser					
			210			215						220								
Gly	Ser	His	Ser	Gly	Phe	Ser	Ile	Lys	Gly	Tyr	Ser	Ala	Tyr	Asp	Phe					
225				230						235			240							
Ser	Asp	Gln	Glu	Asp	Glu	Met	Ala	Lys	Ala	Leu	Leu	Thr	Phe	Gly	Pro					
			245						250						255					
Leu	Val	Val	Ile	Val	Asp	Ala	Val	Ser	Trp	Gln	Asp	Tyr	Leu	Gly	Gly					
			260						265						270					
Ile	Ile	Gln	His	His	Cys	Ser	Ser	Gly	Glu	Ala	Asn	His	Ala	Val	Leu					
			275						280						285					
Ile	Thr	Gly	Phe	Asp	Lys	Thr	Gly	Ser	Thr	Pro	Tyr	Trp	Ile	Val	Arg					
			290			295						300								
Asn	Ser	Trp	Gly	Ser	Ser	Trp	Gly	Val	Asp	Gly	Tyr	Ala	His	Val	Lys					
305				310						315			320							
Met	Gly	Ser	Asn	Val	Cys	Gly	Ile	Ala	Asp	Ser	Val	Ser	Ser	Ile	Phe					
			325						330						335					
Val																				

995

<210> 1022

<211> 134

<212> PRT

<213> Homo sapiens

<400> 1022

Ala Ser Ala Glu Phe Glu Met Ala Gly Gly Lys Ala Gly Lys Asp Ser
1 5 10 15

Gly Lys Ala Lys Thr Lys Ala Val Ser Arg Ser Gln Arg Ala Gly Leu
20 25 30

Gln Phe Pro Val Gly Arg Ile His Arg His Leu Lys Ser Arg Thr Thr
35 40 45

Ser His Gly Arg Val Gly Ala Thr Ala Ala Val Tyr Ser Ala Ala Ile
50 55 60

Leu Glu Tyr Leu Thr Ala Glu Val Leu Glu Leu Ala Gly Asn Ala Ser
65 70 75 80

Lys Asp Leu Lys Val Lys Arg Ile Thr Pro Arg His Leu Gln Leu Ala
85 90 95

Ile Arg Gly Asp Glu Glu Leu Asp Ser Leu Ile Lys Ala Thr Ile Ala
100 105 110

Gly Gly Gly Val Ile Pro His Ile His Lys Ser Leu Ile Gly Lys Lys
115 120 125

Gly Gln Gln Lys Thr Val
130

<210> 1023

<211> 226

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

996

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1023

Gly	Leu	Phe	Gln	Thr	Cys	Ile	His	Leu	Leu	Thr	Leu	Pro	Val	Leu	Val
1				5					10					15	

His	Gly	Glu	Leu	Phe	Ala	Pro	Pro	Arg	Trp	Leu	Arg	Arg	Ala	Ala	Gly
			20					25					30		

Xaa	Pro	Trp	Thr	Leu	Val	Thr	Ser	Cys	Xaa	Ser	Leu	Arg	Pro	Ser	Gly
		35					40					45			

Pro	Cys	Pro	Arg	Pro	Gly	Arg	Ala	Leu	Leu	Pro	Ser	Cys	Ala	Pro	Ala
	50					55					60				

Ala	Arg	Xaa	Pro	Trp	Gly	Gly	Val	Val	Trp	Cys	Trp	Glu	Gly	Val	Leu
65					70					75					80

Gln	Gly	Glu	Glu	Asp	Leu	Glu	Gly	Leu	Gly	Ala	Ala	Val	Leu	Asn	Arg
				85					90					95	

Leu	Thr	Leu	Arg	Arg	Pro	Leu	Ser	Ala	Ala	Leu	Leu	Phe	Ile	Thr	Val
			100					105						110	

Pro	His	Ser	Gly	Arg	Arg	Ser	Pro	Val	Ala	Gly	Gln	Val	Pro	Met	Ala
		115					120					125			

Cys	Ser	Leu	Glu	Pro	Asp	Phe	Arg	Cys	Phe	Gly	Ile	Arg	Ser	Pro	Gln
	130					135					140				

His	Arg	Gln	Val	His	Pro	Ile	Ile	Thr	Leu	Pro	Val	Pro	Gly	Trp	Ala
145					150					155					160

Gly	Asp	Ser	Gly	Thr	Val	Met	Pro	Gly	Ala	Arg	Thr	Ala	Ala	Leu	Pro
			165						170					175	

Leu	His	Thr	Asp	Gly	Leu	Gly	Val	Ala	Leu	Arg	Pro	His	Pro	Thr	Leu
			180					185					190		

Ile	Ser	Gly	Arg	Gly	Ser	Pro	Glu	Trp	Ser	Leu	Val	Arg	Ala	Val	Ala
		195					200					205			

Lys	Pro	Ala	Val	Ser	Phe	Leu	His	Lys	Val	Pro	Pro	Pro	Leu	Ser	Val
	210					215					220				

Ser	Gly
225	

997

<210> 1024

<211> 760

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (330)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1024

Gln	Gly	Lys	Lys	Arg	Ala	Gly	Asn	Phe	Ala	Ile	Met	Glu	Ile	Gln	Cys
1				5					10					15	

Pro	Ala	Leu	Arg	Lys	Thr	Leu	Pro	Ile	Leu	Phe	Gly	Ser	Leu	Arg	Arg
			20					25					30		

Cys	Leu	Cys	Leu	Ser	Asp	Lys	Tyr	Ser	Gln	Ala	Cys	His	Pro	Leu	Gly
		35					40					45			

Ser	Lys	Val	Arg	Arg	Cys	Arg	Lys	Pro	Gly	Pro	Arg	Asp	Arg	Gln	Leu
	50					55					60				

Thr	Arg	Val	Asp	Lys	Ser	Pro	Glu	Met	Trp	Cys	Ile	Val	Leu	Phe	Ser
65					70					75					80

Leu	Leu	Ala	Trp	Val	Tyr	Ala	Glu	Pro	Thr	Met	Tyr	Gly	Glu	Ile	Leu
			85						90					95	

Ser	Pro	Asn	Tyr	Pro	Gln	Ala	Tyr	Pro	Ser	Glu	Val	Glu	Lys	Ser	Trp
		100						105					110		

Asp	Ile	Glu	Val	Pro	Glu	Gly	Tyr	Gly	Ile	His	Leu	Tyr	Phe	Thr	His
	115						120					125			

Leu	Asp	Ile	Glu	Leu	Ser	Glu	Asn	Cys	Ala	Tyr	Asp	Ser	Val	Gln	Ile
	130					135					140				

Ile	Ser	Gly	Asp	Thr	Glu	Glu	Gly	Arg	Leu	Cys	Gly	Gln	Arg	Ser	Ser
145				150						155				160	

Asn	Asn	Pro	His	Ser	Pro	Ile	Val	Glu	Glu	Phe	Gln	Val	Pro	Tyr	Asn
			165						170					175	

Lys	Leu	Gln	Val	Ile	Phe	Lys	Ser	Asp	Phe	Ser	Asn	Glu	Glu	Arg	Phe
		180						185					190		

Thr	Gly	Phe	Ala	Ala	Tyr	Tyr	Val	Ala	Thr	Asp	Ile	Asn	Glu	Cys	Thr
	195						200					205			

Asp	Phe	Val	Asp	Val	Pro	Cys	Ser	His	Phe	Cys	Asn	Asn	Phe	Ile	Gly	210	215	220	
Gly	Tyr	Phe	Cys	Ser	Cys	Pro	Pro	Glu	Tyr	Phe	Leu	His	Asp	Asp	Met	225	230	235	240
Lys	Asn	Cys	Gly	Val	Asn	Cys	Ser	Gly	Asp	Val	Phe	Thr	Ala	Leu	Ile	245	250	255	
Gly	Glu	Ile	Ala	Ser	Pro	Asn	Tyr	Pro	Lys	Pro	Tyr	Pro	Glu	Asn	Ser	260	265	270	
Arg	Cys	Glu	Tyr	Gln	Ile	Arg	Leu	Glu	Lys	Gly	Phe	Gln	Val	Val	Val	275	280	285	
Thr	Leu	Arg	Arg	Glu	Asp	Phe	Asp	Val	Glu	Ala	Ala	Asp	Ser	Ala	Gly	290	295	300	
Asn	Cys	Leu	Asp	Ser	Leu	Val	Phe	Val	Ala	Gly	Asp	Arg	Gln	Phe	Gly	305	310	315	320
Pro	Tyr	Cys	Gly	His	Gly	Phe	Pro	Gly	Xaa	Leu	Asn	Ile	Glu	Thr	Lys	325	330	335	
Ser	Asn	Ala	Leu	Asp	Ile	Ile	Phe	Gln	Thr	Asp	Leu	Thr	Gly	Gln	Lys	340	345	350	
Lys	Gly	Trp	Lys	Leu	Arg	Tyr	His	Gly	Asp	Pro	Met	Pro	Cys	Pro	Lys	355	360	365	
Glu	Asp	Thr	Pro	Asn	Ser	Val	Trp	Glu	Pro	Ala	Lys	Ala	Lys	Tyr	Val	370	375	380	
Phe	Arg	Asp	Val	Val	Gln	Ile	Thr	Cys	Leu	Asp	Gly	Phe	Glu	Val	Val	385	390	395	400
Glu	Gly	Arg	Val	Gly	Ala	Thr	Ser	Phe	Tyr	Ser	Thr	Cys	Gln	Ser	Asn	405	410	415	
Gly	Lys	Trp	Ser	Asn	Ser	Lys	Leu	Lys	Cys	Gln	Pro	Val	Asp	Cys	Gly	420	425	430	
Ile	Pro	Glu	Ser	Ile	Glu	Asn	Gly	Lys	Val	Glu	Asp	Pro	Glu	Ser	Thr	435	440	445	
Leu	Phe	Gly	Ser	Val	Ile	Arg	Tyr	Thr	Cys	Glu	Glu	Pro	Tyr	Tyr	Tyr	450	455	460	
Met	Glu	Asn	Gly	Gly	Gly	Gly	Glu	Tyr	His	Cys	Ala	Gly	Asn	Gly	Ser	465	470	475	480

999

Trp	Val	Asn	Glu	Val	Leu	Gly	Pro	Glu	Leu	Pro	Lys	Cys	Val	Pro	Val	485	490	495	
Cys	Gly	Val	Pro	Arg	Glu	Pro	Phe	Glu	Glu	Lys	Gln	Arg	Ile	Ile	Gly	500	505	510	
Gly	Ser	Asp	Ala	Asp	Ile	Lys	Asn	Phe	Pro	Trp	Gln	Val	Phe	Phe	Asp	515	520	525	
Asn	Pro	Trp	Ala	Gly	Gly	Ala	Leu	Ile	Asn	Glu	Tyr	Trp	Val	Leu	Thr	530	535	540	
Ala	Ala	His	Val	Val	Glu	Gly	Asn	Arg	Glu	Pro	Thr	Met	Tyr	Val	Gly	545	550	555	560
Ser	Thr	Ser	Val	Gln	Thr	Ser	Arg	Leu	Ala	Lys	Ser	Lys	Met	Leu	Thr	565	570	575	
Pro	Glu	His	Val	Phe	Ile	His	Pro	Gly	Trp	Lys	Leu	Leu	Glu	Val	Pro	580	585	590	
Glu	Gly	Arg	Thr	Asn	Phe	Asp	Asn	Asp	Ile	Ala	Leu	Val	Arg	Leu	Lys	595	600	605	
Asp	Pro	Val	Lys	Met	Gly	Pro	Thr	Val	Ser	Pro	Ile	Cys	Leu	Pro	Gly	610	615	620	
Thr	Ser	Ser	Asp	Tyr	Asn	Leu	Met	Asp	Gly	Asp	Leu	Gly	Leu	Ile	Ser	625	630	635	640
Gly	Trp	Gly	Arg	Thr	Glu	Lys	Arg	Asp	Arg	Ala	Val	Arg	Leu	Lys	Ala	645	650	655	
Ala	Arg	Leu	Pro	Val	Ala	Pro	Leu	Arg	Lys	Cys	Lys	Glu	Val	Lys	Val	660	665	670	
Glu	Lys	Pro	Thr	Ala	Asp	Ala	Glu	Ala	Tyr	Val	Phe	Thr	Pro	Asn	Met	675	680	685	
Ile	Cys	Ala	Gly	Gly	Glu	Lys	Gly	Met	Asp	Ser	Cys	Lys	Gly	Asp	Ser	690	695	700	
Gly	Gly	Ala	Phe	Ala	Val	Gln	Asp	Pro	Asn	Asp	Lys	Thr	Lys	Phe	Tyr	705	710	715	720
Ala	Ala	Gly	Leu	Val	Ser	Trp	Gly	Pro	Gln	Cys	Gly	Thr	Tyr	Gly	Leu	725	730	735	
Tyr	Thr	Arg	Val	Lys	Asn	Tyr	Val	Asp	Trp	Ile	Met	Lys	Thr	Met	Gln	740	745	750	

1000

Glu Asn Ser Thr Pro Arg Glu Asp
 755 760

<210> 1025
 <211> 216
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (139)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1025
 Gly Gly Gly Arg Leu Arg Arg Arg Arg Ser Gly Ser Pro Gly Trp Arg
 1 5 10 15
 Ala Pro Arg Thr Gly Met Leu Leu Gly Leu Ala Ala Met Glu Leu Lys
 20 25 30
 Val Trp Val Asp Gly Ile Gln Arg Val Val Cys Gly Val Ser Glu Gln
 35 40 45
 Thr Thr Cys Gln Glu Val Val Ile Ala Leu Ala Gln Ala Ile Gly Gln
 50 55 60
 Thr Gly Arg Phe Val Leu Val Gln Arg Leu Arg Glu Lys Glu Arg Gln
 65 70 75 80
 Leu Leu Pro Gln Glu Cys Pro Val Gly Ala Gln Ala Thr Cys Gly Gln
 85 90 95
 Phe Ala Ser Asp Val Gln Phe Val Leu Arg Arg Thr Gly Pro Ser Leu
 100 105 110
 Ala Gly Xaa Pro Ser Ser Asp Ser Cys Pro Pro Pro Glu Arg Cys Leu
 115 120 125
 Ile Arg Ala Ser Leu Pro Val Lys Pro Arg Xaa Ala Leu Gly Cys Glu
 130 135 140
 Pro Arg Lys Thr Leu Thr Pro Glu Pro Ala Pro Ser Leu Ser Arg Pro
 145 150 155 160

Gly	Pro	Ala	Ala	Cys	Glu	His	Pro	His	Gln	Ala	Ala	Ala	Gln	Thr	Cys
				165					170					175	
Gly	Ala	Trp	Ser	Ser	Gly	Cys	Arg	Gly	Met	Leu	Arg	Ser	Trp	Ala	Met
			180					185					190		
Arg	Pro	Ser	Gly	Ser	Lys	Ser	Cys	Ala	Gly	Ser	Arg	Pro	Gly	Ser	Glu
		195					200					205			
Arg	Asp	Arg	His	Ala	Cys	Arg	His								
	210					215									

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<210> 1026
<211> 604
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (303)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (359)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1026
Gly Thr Ser Ser Asp Ile Leu Lys Gly Asn Phe Ser Ile Arg Thr Ala
  1             5             10             15

Lys Met Gln Gln His Val Cys Glu Thr Ile Ile Arg Ile Phe Lys Arg
          20             25             30

His Gly Ala Val Gln Leu Cys Thr Pro Leu Leu Leu Pro Arg Asn Arg
          35             40             45

Gln Ile Tyr Glu His Asn Glu Ala Ala Leu Phe Met Asp His Ser Gly
  50             55             60

Met Leu Val Met Leu Pro Phe Asp Leu Arg Ile Pro Phe Ala Arg Tyr
  65             70             75             80

Val Ala Arg Asn Asn Ile Leu Asn Leu Lys Arg Tyr Cys Ile Glu Arg
          85             90             95

Val Phe Arg Pro Arg Lys Leu Asp Arg Phe His Pro Lys Glu Leu Leu
          100             105             110

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1002

Glu	Cys	Ala	Phe	Asp	Ile	Val	Thr	Ser	Thr	Thr	Asn	Ser	Phe	Leu	Pro	115	120	125	
Thr	Ala	Glu	Ile	Ile	Tyr	Thr	Ile	Tyr	Glu	Ile	Ile	Gln	Glu	Phe	Pro	130	135	140	
Ala	Leu	Gln	Glu	Arg	Asn	Tyr	Ser	Ile	Tyr	Leu	Asn	His	Thr	Met	Leu	145	150	155	160
Leu	Lys	Ala	Ile	Leu	Leu	His	Cys	Gly	Ile	Pro	Glu	Asp	Lys	Leu	Ser	165	170	175	
Gln	Val	Tyr	Ile	Ile	Leu	Tyr	Asp	Ala	Val	Thr	Glu	Lys	Leu	Thr	Arg	180	185	190	
Arg	Glu	Val	Glu	Ala	Lys	Phe	Cys	Asn	Leu	Ser	Leu	Ser	Ser	Asn	Ser	195	200	205	
Leu	Cys	Arg	Leu	Tyr	Lys	Phe	Ile	Glu	Gln	Lys	Gly	Asp	Leu	Gln	Asp	210	215	220	
Leu	Met	Pro	Thr	Ile	Asn	Ser	Leu	Ile	Lys	Gln	Lys	Thr	Gly	Ile	Ala	225	230	235	240
Gln	Leu	Val	Lys	Tyr	Gly	Leu	Lys	Asp	Leu	Glu	Glu	Val	Val	Gly	Leu	245	250	255	
Leu	Lys	Lys	Leu	Gly	Ile	Lys	Leu	Gln	Val	Leu	Ile	Asn	Leu	Gly	Leu	260	265	270	
Val	Tyr	Lys	Val	Gln	Gln	His	Asn	Gly	Ile	Ile	Phe	Gln	Phe	Val	Ala	275	280	285	
Phe	Ile	Lys	Arg	Arg	Gln	Arg	Ala	Val	Pro	Glu	Ile	Leu	Ala	Xaa	Gly	290	295	300	
Gly	Arg	Tyr	Asp	Leu	Leu	Ile	Pro	Gln	Phe	Arg	Gly	Pro	Gln	Ala	Leu	305	310	315	320
Gly	Pro	Val	Pro	Thr	Ala	Ile	Gly	Val	Ser	Ile	Ala	Ile	Asp	Lys	Ile	325	330	335	
Ser	Ala	Ala	Val	Leu	Asn	Met	Glu	Glu	Ser	Val	Thr	Ile	Ser	Ser	Cys	340	345	350	
Asp	Leu	Leu	Val	Val	Ser	Xaa	Gly	Gln	Met	Ser	Met	Ser	Arg	Ala	Ile	355	360	365	
Asn	Leu	Thr	Gln	Lys	Leu	Trp	Thr	Ala	Gly	Ile	Thr	Ala	Glu	Ile	Met	370	375	380	

1003

Tyr Asp Trp Ser Gln Ser Gln Glu Glu Leu Gln Glu Tyr Cys Arg His
 385 390 395 400
 His Glu Ile Thr Tyr Val Ala Leu Val Ser Asp Lys Glu Gly Ser His
 405 410 415
 Val Lys Val Lys Ser Phe Glu Lys Glu Arg Gln Thr Glu Lys Arg Val
 420 425 430
 Leu Glu Thr Glu Leu Val Asp His Val Leu Gln Lys Leu Arg Thr Lys
 435 440 445
 Val Thr Asp Glu Arg Asn Gly Arg Glu Ala Ser Asp Asn Leu Ala Val
 450 455 460
 Gln Asn Leu Lys Gly Ser Phe Ser Asn Ala Ser Gly Leu Phe Glu Ile
 465 470 475 480
 His Gly Ala Thr Val Val Pro Ile Val Ser Val Leu Ala Pro Glu Lys
 485 490 495
 Leu Ser Ala Ser Thr Arg Arg Arg Tyr Glu Thr Gln Val Gln Thr Arg
 500 505 510
 Leu Gln Thr Ser Leu Ala Asn Leu His Gln Lys Ser Ser Glu Ile Glu
 515 520 525
 Ile Leu Ala Val Asp Leu Pro Lys Glu Thr Ile Leu Gln Phe Leu Ser
 530 535 540
 Leu Glu Trp Asp Ala Asp Glu Gln Ala Phe Asn Thr Thr Val Lys Gln
 545 550 555 560
 Leu Leu Ser Arg Leu Pro Lys Gln Arg Tyr Leu Lys Leu Val Cys Asp
 565 570 575
 Glu Ile Tyr Asn Ile Lys Val Glu Lys Lys Val Ser Val Leu Phe Leu
 580 585 590
 Tyr Ser Tyr Arg Asp Asp Tyr Tyr Arg Ile Leu Phe
 595 600

<210> 1027

<211> 459

<212> PRT

<213> Homo sapiens

<220>

1004

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1027

Thr Ser Cys Gly Ile Asn Thr Lys Phe Thr Ser Lys Glu Pro Ile Phe
1 5 10 15

Leu Thr Gln Leu Leu His Phe Ser Asn Leu Xaa Gln Glu Tyr Lys Ile
20 25 30

Asn Ser Arg Leu Leu Gln Asn Ile Leu Asp Ala Gly Phe Gln Met Pro
35 40 45

Thr Pro Ile Gln Met Gln Ala Ile Pro Val Met Leu His Gly Arg Glu
50 55 60

Leu Leu Ala Ser Ala Pro Thr Gly Ser Gly Lys Thr Leu Ala Phe Ser
65 70 75 80

Ile Pro Ile Leu Met Gln Leu Lys Gln Pro Ala Asn Lys Gly Phe Arg
85 90 95

Ala Leu Ile Ile Ser Pro Thr Arg Glu Leu Ala Ser Gln Ile His Arg
100 105 110

Glu Leu Ile Lys Ile Ser Glu Gly Thr Gly Phe Arg Ile His Met Ile
115 120 125

His Lys Ala Ala Val Ala Ala Lys Lys Phe Gly Pro Lys Ser Ser Lys
130 135 140

Lys Phe Asp Ile Leu Val Thr Thr Pro Asn Arg Leu Ile Tyr Leu Leu
145 150 155 160

Lys Gln Asp Pro Pro Gly Ile Asp Leu Ala Ser Val Glu Trp Leu Val
165 170 175

Val Asp Glu Ser Asp Lys Leu Phe Glu Asp Gly Lys Thr Gly Phe Arg
180 185 190

Asp Gln Leu Ala Ser Ile Phe Leu Ala Cys Thr Ser His Lys Val Arg
195 200 205

Arg Ala Met Phe Ser Ala Thr Phe Ala Tyr Asp Val Glu Gln Trp Cys
210 215 220

Lys Leu Asn Leu Asp Asn Val Ile Ser Val Ser Ile Gly Ala Arg Asn
225 230 235 240

Ser Ala Val Glu Thr Val Glu Gln Glu Leu Leu Phe Val Gly Ser Glu

1005

	245		250		255
Thr Gly Lys Leu Leu Ala Val Arg Glu Leu Val Lys Lys Gly Phe Asn	260	265	270		
Pro Pro Val Leu Val Phe Val Gln Ser Ile Glu Arg Ala Lys Glu Leu	275	280	285		
Phe His Glu Leu Ile Tyr Glu Gly Ile Asn Val Asp Val Ile His Ala	290	295	300		
Glu Arg Thr Gln Gln Gln Arg Asp Asn Thr Val His Ser Phe Arg Ala	305	310	315	320	
Gly Lys Ile Trp Val Leu Ile Cys Thr Ala Leu Leu Ala Arg Gly Ile	325	330	335		
Asp Phe Lys Gly Val Asn Leu Val Ile Asn Tyr Asp Phe Pro Thr Ser	340	345	350		
Ser Val Glu Tyr Ile His Arg Ile Gly Arg Thr Gly Arg Ala Gly Asn	355	360	365		
Lys Gly Lys Ala Ile Thr Phe Phe Thr Glu Asp Asp Lys Pro Leu Leu	370	375	380		
Arg Ser Val Ala Asn Val Ile Gln Gln Ala Gly Cys Pro Val Pro Glu	385	390	395	400	
Tyr Ile Lys Gly Phe Gln Lys Leu Leu Ser Lys Gln Lys Lys Lys Met	405	410	415		
Ile Lys Lys Pro Leu Glu Arg Glu Ser Ile Ser Thr Thr Pro Lys Cys	420	425	430		
Phe Leu Glu Lys Ala Lys Asp Lys Gln Lys Lys Val Thr Gly Gln Asn	435	440	445		
Ser Lys Lys Lys Val Ala Leu Glu Asp Lys Ser	450	455			

<210> 1028

<211> 68

<212> PRT

<213> Homo sapiens

<400> 1028

Gln Arg Gly Phe Tyr Ala Asn Ala Leu Thr Ser Ala Leu Gly Asn Glu	1	5	10	15
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1006

Arg Val Thr Ser Ala Ser Ser Leu Ala Ser Phe Leu Val Leu Glu Arg
 20 25 30

Leu Thr Asn Val Cys His Ser His Lys Cys Phe Glu Leu Asp Leu Cys
 35 40 45

Asp Leu Cys Phe Phe Ser Phe Ser Leu Glu Ser Glu Tyr His Cys Leu
 50 55 60

Pro Pro Arg Ser
 65

<210> 1029

<211> 215

<212> PRT

<213> Homo sapiens

<400> 1029

Tyr Pro Leu Thr Pro Ala Pro Ala Pro His Asp Pro Ser Pro Arg Ala
 1 5 10 15

His Gly Arg Gly Asp Asp Val Thr Gln Ala Thr Ala Leu Thr Ser His
 20 25 30

Ile Thr Val Val Met Ala Ser Arg Gly His Val Asp Val Thr Lys Arg
 35 40 45

Tyr Ser Asp Gly Val Val Gln Met Gln His Val Ala His Arg His Gly
 50 55 60

Glu Leu Gly Met Thr Ser His Arg Asp Ala Ala Thr Thr Ser Arg Ala
 65 70 75 80

Met Ser Thr Ser His Ile Leu Met Ser His Arg Arg Gly Asp Gly Ile
 85 90 95

Thr Gln Thr Val Met Met Ser His Thr Asp Thr Val Thr Thr His Thr
 100 105 110

Met Thr Thr Thr Pro Ile Asp Met Ala Pro Thr Ser His Ala Arg Met
 115 120 125

Pro Phe His Thr His Phe Leu Pro Asn Ser His Leu Val Ser Arg Ser
 130 135 140

Pro Asp Pro Gly Thr Arg Ala Lys Val Pro Thr Gly Ser His Pro Leu
 145 150 155 160

1007

Pro His Ser Pro Gly Pro Gln His Leu Pro Ser Ser Ser Phe Leu Ala
 165 170 175

Ser Gln Pro Leu Pro His Pro Gln Cys Leu Asp Pro Glu Val Arg Thr
 180 185 190

Gly Ser His Ser Pro Pro Leu Leu Glu Arg Glu Cys Phe Gln Asp Pro
 195 200 205

Leu Gly Ala Leu Ser Arg Gly
 210 215

<210> 1030

<211> 297

<212> PRT

<213> Homo sapiens

<400> 1030

Lys Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg
 1 5 10 15

Val Arg Pro Arg Val Arg Pro Arg Val Arg Trp Thr Ala Ala Met Arg
 20 25 30

Leu Thr Val Leu Cys Ala Val Cys Leu Leu Pro Gly Ser Leu Ala Leu
 35 40 45

Pro Leu Pro Gln Glu Ala Gly Gly Met Ser Glu Leu Gln Trp Glu Gln
 50 55 60

Ala Gln Asp Tyr Leu Lys Arg Phe Tyr Leu Tyr Asp Ser Glu Thr Lys
 65 70 75 80

Asn Ala Asn Ser Leu Glu Ala Lys Leu Lys Glu Met Gln Lys Phe Phe
 85 90 95

Gly Leu Pro Ile Thr Gly Met Leu Asn Ser Arg Val Ile Glu Ile Met
 100 105 110

Gln Lys Pro Arg Cys Gly Val Pro Asp Val Ala Glu Tyr Ser Leu Phe
 115 120 125

Pro Asn Ser Pro Lys Trp Thr Ser Lys Val Val Thr Tyr Arg Ile Val
 130 135 140

Ser Tyr Thr Arg Asp Leu Pro His Ile Thr Val Asp Arg Leu Val Ser
 145 150 155 160

Lys Ala Leu Asn Met Trp Gly Lys Glu Ile Pro Leu His Phe Arg Lys

165								170				175					
Val	Val	Trp	Gly	Thr	Ala	Asp	Ile	Met	Ile	Gly	Phe	Ala	Arg	Gly	Ala		
180								185				190					
His	Gly	Asp	Ser	Tyr	Pro	Phe	Asp	Gly	Pro	Gly	Asn	Thr	Leu	Ala	His		
195								200				205					
Ala	Phe	Ala	Pro	Gly	Thr	Gly	Leu	Gly	Gly	Asp	Ala	His	Phe	Asp	Glu		
210								215				220					
Asp	Glu	Arg	Trp	Thr	Asp	Gly	Ser	Ser	Leu	Gly	Ile	Asn	Phe	Leu	Tyr		
225								230				235				240	
Ala	Ala	Thr	His	Glu	Leu	Gly	His	Ser	Leu	Gly	Met	Gly	His	Ser	Ser		
245								250				255					
Asp	Pro	Asn	Ala	Val	Met	Tyr	Pro	Thr	Tyr	Gly	Asn	Gly	Asp	Pro	Gln		
260								265				270					
Asn	Phe	Lys	Leu	Ser	Gln	Asp	Asp	Ile	Lys	Gly	Ile	Gln	Lys	Leu	Tyr		
275								280				285					
Gly	Lys	Arg	Ser	Asn	Ser	Arg	Lys	Lys									
290								295									

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<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (484)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1031
Arg Val Arg Ser Lys Val Pro Arg Cys Val Asn Thr Gln Pro Gly Phe
1 5 10 15

1009

His	Cys	Leu	Pro	Cys	Pro	Pro	Arg	Tyr	Arg	Gly	Asn	Gln	Pro	Val	Gly	
			20						25			30				
Val	Gly	Leu	Glu	Ala	Ala	Lys	Thr	Glu	Lys	Gln	Xaa	Cys	Glu	Pro	Glu	
			35						40			45				
Asn	Pro	Cys	Lys	Asp	Lys	Thr	His	Asn	Cys	His	Lys	His	Ala	Glu	Cys	
			50						55			60				
Ile	Tyr	Leu	Gly	His	Phe	Ser	Asp	Pro	Met	Tyr	Lys	Cys	Glu	Cys	Gln	
			65						70			75			80	
Xaa	Gly	Tyr	Ala	Gly	Asp	Gly	Leu	Ile	Cys	Gly	Glu	Asp	Ser	Asp	Leu	
			85						90			95				
Asp	Gly	Trp	Pro	Asn	Leu	Asn	Leu	Val	Cys	Ala	Thr	Asn	Ala	Thr	Tyr	
			100						105			110				
His	Cys	Ile	Lys	Asp	Asn	Cys	Pro	His	Leu	Pro	Asn	Ser	Gly	Gln	Glu	
			115						120			125				
Asp	Phe	Asp	Lys	Asp	Gly	Ile	Gly	Asp	Ala	Cys	Asp	Asp	Asp	Asp	Asp	
			130						135			140				
Asn	Asp	Gly	Val	Thr	Asp	Glu	Lys	Asp	Asn	Cys	Gln	Leu	Leu	Phe	Asn	
			145						150			155			160	
Pro	Arg	Gln	Ala	Asp	Tyr	Asp	Lys	Asp	Glu	Val	Gly	Asp	Arg	Cys	Asp	
			165						170			175				
Asn	Cys	Pro	Tyr	Val	His	Asn	Pro	Ala	Gln	Ile	Asp	Thr	Asp	Asn	Asn	
			180						185			190				
Gly	Glu	Gly	Asp	Ala	Cys	Ser	Val	Asp	Ile	Asp	Gly	Asp	Asp	Val	Phe	
			195						200			205				
Asn	Glu	Arg	Asp	Asn	Cys	Pro	Tyr	Val	Tyr	Asn	Thr	Asp	Gln	Arg	Asp	
			210						215			220				
Thr	Asp	Gly	Asp	Gly	Val	Gly	Asp	His	Cys	Asp	Asn	Cys	Pro	Leu	Val	
			225						230			235			240	
His	Asn	Pro	Asp	Gln	Thr	Asp	Val	Asp	Asn	Asp	Leu	Val	Gly	Asp	Gln	
			245						250			255				
Cys	Asp	Asn	Asn	Glu	Asp	Ile	Asp	Asp	Asp	Gly	His	Gln	Asn	Asn	Gln	
			260						265			270				
Asp	Asn	Cys	Pro	Tyr	Ile	Ser	Asn	Ala	Asn	Gln	Ala	Asp	His	Asp	Arg	
			275						280			285				

1010

Asp	Gly	Gln	Gly	Asp	Ala	Cys	Asp	Pro	Asp	Asp	Asp	Asn	Asp	Gly	Val	290	295	300	
Pro	Asp	Asp	Arg	Asp	Asn	Cys	Arg	Leu	Val	Phe	Asn	Pro	Asp	Gln	Glu	305	310	315	320
Asp	Leu	Asp	Gly	Asp	Gly	Arg	Gly	Asp	Ile	Cys	Lys	Asp	Asp	Phe	Asp	325	330	335	
Asn	Asp	Asn	Ile	Pro	Asp	Ile	Asp	Asp	Val	Cys	Pro	Glu	Asn	Asn	Ala	340	345	350	
Ile	Ser	Glu	Thr	Asp	Phe	Arg	Asn	Phe	Gln	Met	Val	Pro	Leu	Asp	Pro	355	360	365	
Lys	Gly	Thr	Thr	Gln	Ile	Asp	Pro	Asn	Trp	Val	Ile	Arg	His	Gln	Gly	370	375	380	
Lys	Glu	Leu	Val	Gln	Thr	Ala	Asn	Ser	Asp	Pro	Gly	Ile	Ala	Val	Gly	385	390	395	400
Phe	Asp	Glu	Phe	Gly	Ser	Val	Asp	Phe	Ser	Gly	Thr	Phe	Tyr	Val	Asn	405	410	415	
Thr	Asp	Arg	Asp	Asp	Asp	Tyr	Ala	Gly	Phe	Val	Phe	Gly	Tyr	Gln	Ser	420	425	430	
Ser	Ser	Arg	Phe	Tyr	Val	Val	Met	Trp	Lys	Gln	Val	Thr	Gln	Thr	Tyr	435	440	445	
Trp	Glu	Asp	Gln	Pro	Thr	Arg	Ala	Tyr	Gly	Tyr	Ser	Gly	Val	Ser	Leu	450	455	460	
Lys	Val	Val	Asn	Ser	Thr	Thr	Gly	Thr	Gly	Glu	His	Leu	Arg	Asn	Ala	465	470	475	480
Leu	Trp	His	Xaa	Gly	Asn	Thr	Pro	Gly	Gln	Val	Arg	Thr	Leu	Trp	His	485	490	495	
Asp	Pro	Arg	Asn	Ile	Gly	Trp	Lys	Asp	Tyr	Thr	Ala	Tyr	Arg	Trp	His	500	505	510	
Leu	Thr	His	Arg	Pro	Lys	Thr	Gly	Tyr	Ile	Arg	Val	Leu	Val	His	Glu	515	520	525	
Gly	Lys	Gln	Val	Met	Ala	Asp	Ser	Gly	Pro	Ile	Tyr	Asp	Gln	Thr	Tyr	530	535	540	
Ala	Gly	Gly	Arg	Leu	Gly	Leu	Phe	Val	Phe	Ser	Gln	Glu	Met	Val	Tyr	545	550	555	560

1011

Phe Ser Asp Leu Lys Tyr Glu Cys Arg Asp Ile
565 570

<210> 1032
<211> 114
<212> PRT
<213> Homo sapiens

<400> 1032
Gly Arg Gly Thr Ala Thr Phe Pro Thr Gly His Glu Phe Val Gly Pro
1 5 10 15
Cys Leu Gly Arg Ala Glu Ala Phe Trp Arg Ser Lys Met Gly Arg Lys
20 25 30
Asp Ala Ala Thr Ile Lys Leu Pro Val Asp Gln Tyr Arg Lys Gln Ile
35 40 45
Gly Lys Gln Asp Tyr Lys Lys Thr Lys Pro Ile Leu Arg Ala Thr Lys
50 55 60
Leu Lys Ala Glu Ala Lys Lys Thr Ala Ile Gly Ile Lys Glu Val Gly
65 70 75 80
Leu Val Leu Ala Ala Ile Leu Ala Leu Leu Leu Ala Phe Tyr Ala Phe
85 90 95
Phe Tyr Leu Arg Leu Thr Thr Asp Val Asp Pro Asp Leu Asp Gln Asp
100 105 110
Glu Asp

<210> 1033
<211> 243
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)

1012

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1033

His Arg Arg Asp Glu Ala Leu Gln Ser Leu Arg Phe Arg Arg Arg Pro
1 5 10 15

Gly Ala Gln Ala Ala Asp Ala Cys Gly Pro Arg Ala Asp Leu Gly Gly
20 25 30

Pro Arg Glu Pro Ala Ala Gly Gly Arg Ala Ala Trp His Arg Pro Ala
35 40 45

Ala Arg Gly Gln Ser Pro Arg Arg Cys His Ala Gly Val His Arg Ser
50 55 60

Gln Cys His Leu Cys Arg Leu Gly Ala Ala Glu Arg Phe Arg Gly Ile
65 70 75 80

Val Ala Leu Leu Ala Ser Arg Xaa Leu Leu Arg Pro Pro Leu His Trp
85 90 95

Val Leu Leu Ala Xaa Ala Leu Val Asn Leu Leu Leu Ser Val Ala Cys
100 105 110

Ser Leu Gly Leu Leu Leu Ala Val Ser Leu Thr Val Ala Asn Gly Gly
115 120 125

Arg Arg Leu Ile Ala Asp Cys His Pro Gly Leu Leu Asp Pro Leu Val
130 135 140

Pro Leu Asp Glu Gly Pro Gly His Thr Asp Cys Pro Phe Asp Pro Thr
145 150 155 160

Arg Ile Tyr Asp Thr Ala Leu Ala Leu Trp Ile Pro Ser Leu Leu Met
165 170 175

Ser Ala Gly Glu Ala Ala Leu Ser Gly Tyr Cys Cys Val Ala Ala Leu
180 185 190

Thr Leu Arg Gly Val Gly Pro Cys Arg Lys Asp Gly Leu Gln Gly Gln
195 200 205

Leu Glu Glu Met Thr Glu Leu Glu Ser Pro Lys Cys Lys Arg Gln Glu
210 215 220

Asn Glu Gln Leu Leu Asp Gln Asn Gln Glu Ile Arg Ala Ser Gln Arg
225 230 235 240

Ser Trp Val

1013

<210> 1034

<211> 173

<212> PRT

<213> Homo sapiens

<400> 1034

Tyr Thr Trp His Ser Glu Lys Met Asp Leu Lys Asp Lys Asn Gly Gly
 1 5 10 15

Pro Gly Arg Cys Asn Ser His Arg Leu Lys Val Ser Ser Gly Leu Cys
 20 25 30

Lys Thr His Glu Ile Gly Phe Asp Pro Leu Ala Leu Lys Cys Pro Leu
 35 40 45

Arg Ser Arg Thr Ala Pro Trp Trp Pro Leu Asp Arg Val Ser Phe Asp
 50 55 60

Leu His His Leu Val Ile Gly Asn Phe Phe Val Gly Asn Arg Lys Ile
 65 70 75 80

Phe Leu Asp Tyr Leu Val Tyr Gly Phe Ala His Asn Asn Arg Trp Lys
 85 90 95

Leu Leu Val Gln Ser Trp Ser Asp Gly Cys Val His Arg Thr Phe Gly
 100 105 110

Leu Val Lys Ser Phe Ser Lys Ala Ser Phe Cys Ile Phe Ile Thr Lys
 115 120 125

Gln Arg Lys Ser Ser Glu Asp Leu Ala Leu Lys Gln Ile Cys Ala Asn
 130 135 140

Thr Ala Arg Val Ile Leu Lys Leu Lys His Phe His Phe Val Ser Tyr
 145 150 155 160

Met Cys Thr Phe Leu Phe Thr Cys Glu Asn Gly His Leu
 165 170

<210> 1035

<211> 241

<212> PRT

<213> Homo sapiens

<400> 1035

Ser Phe Ser Glu Met Ala Gly Val Ser Ala Cys Ile Lys Tyr Ser Met
 1 5 10 15

1014

Phe Thr Phe Asn Phe Leu Phe Trp Leu Cys Gly Ile Leu Ile Leu Ala
 20 25 30
 Leu Ala Ile Trp Val Arg Val Ser Asn Asp Ser Gln Ala Ile Phe Gly
 35 40 45
 Ser Glu Asp Val Gly Ser Ser Ser Tyr Val Ala Val Asp Ile Leu Ile
 50 55 60
 Ala Val Gly Ala Ile Ile Met Ile Leu Gly Phe Leu Gly Cys Cys Gly
 65 70 75 80
 Ala Ile Lys Glu Ser Arg Cys Met Leu Leu Leu Phe Phe Ile Gly Leu
 85 90 95
 Leu Leu Ile Leu Leu Leu Gln Val Ala Thr Gly Ile Leu Gly Ala Val
 100 105 110
 Phe Lys Ser Lys Ser Asp Arg Ile Val Asn Glu Thr Leu Tyr Glu Asn
 115 120 125
 Thr Lys Leu Leu Ser Ala Thr Gly Glu Ser Glu Lys Gln Phe Gln Glu
 130 135 140
 Ala Ile Ile Val Phe Gln Glu Glu Phe Lys Cys Cys Gly Leu Val Asn
 145 150 155 160
 Gly Ala Ala Asp Trp Gly Asn Asn Phe Gln His Tyr Pro Glu Leu Cys
 165 170 175
 Ala Cys Leu Asp Lys Gln Arg Pro Cys Gln Ser Tyr Asn Gly Lys Gln
 180 185 190
 Val Tyr Lys Glu Thr Cys Ile Ser Phe Ile Lys Asp Phe Leu Ala Lys
 195 200 205
 Asn Leu Ile Ile Val Ile Gly Ile Ser Phe Gly Leu Ala Val Ile Glu
 210 215 220
 Ile Leu Gly Leu Val Phe Ser Met Val Leu Tyr Cys Gln Ile Gly Asn
 225 230 235 240
 Lys

<210> 1036

<211> 335

<212> PRT

1015

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1036

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Pro Thr Xaa Gly Arg Ala Glu Glu Ala Lys Met Ala Ala Ala Ala Ala
  1              5              10              15

Ser Leu Arg Gly Val Val Leu Gly Pro Arg Gly Ala Gly Leu Pro Gly
      20              25              30

Ala Arg Ala Arg Gly Leu Leu Cys Ser Ala Arg Pro Gly Gln Leu Pro
      35              40              45

Leu Arg Thr Pro Gln Ala Val Ala Leu Ser Ser Lys Ser Gly Leu Ser
      50              55              60

Arg Gly Arg Lys Val Met Leu Ser Ala Leu Gly Met Leu Ala Ala Gly
      65              70              75              80

Gly Ala Gly Leu Ala Val Ala Leu His Ser Ala Val Ser Ala Ser Asp
      85              90              95

Leu Glu Leu His Pro Pro Ser Tyr Pro Trp Ser His Arg Gly Leu Leu
      100             105             110

Ser Ser Leu Asp His Thr Ser Ile Arg Arg Gly Phe Gln Val Tyr Lys
      115             120             125

Gln Val Cys Ala Ser Cys His Ser Met Asp Phe Val Ala Tyr Arg His
      130             135             140

Leu Val Gly Val Cys Tyr Thr Glu Asp Glu Ala Lys Glu Leu Ala Ala
      145             150             155             160

Glu Val Glu Val Gln Asp Gly Pro Asn Glu Asp Gly Glu Met Phe Met
      165             170             175

Arg Pro Gly Lys Leu Phe Asp Tyr Phe Pro Lys Pro Tyr Pro Asn Ser
      180             185             190

Glu Ala Ala Arg Ala Ala Asn Asn Gly Ala Leu Pro Pro Asp Leu Ser
      195             200             205

Tyr Ile Val Arg Ala Arg His Gly Gly Glu Asp Tyr Val Phe Ser Leu
      210             215             220

Leu Thr Gly Tyr Cys Glu Pro Pro Thr Gly Val Ser Leu Arg Glu Gly

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225	230							235							240	
Leu	Tyr	Phe	Asn	Pro	Tyr	Phe	Pro	Gly	Gln	Ala	Ile	Ala	Met	Ala	Pro	
				245					250					255		
Pro	Ile	Tyr	Thr	Asp	Val	Leu	Glu	Phe	Asp	Asp	Gly	Thr	Pro	Ala	Thr	
			260					265					270			
Met	Ser	Gln	Ile	Ala	Lys	Asp	Val	Cys	Thr	Phe	Leu	Arg	Trp	Ala	Ser	
		275					280					285				
Glu	Pro	Glu	His	Asp	His	Arg	Lys	Arg	Met	Gly	Leu	Lys	Met	Leu	Met	
	290					295					300					
Met	Met	Ala	Leu	Leu	Val	Pro	Leu	Val	Tyr	Thr	Ile	Lys	Arg	His	Lys	
305					310					315					320	
Trp	Ser	Val	Leu	Lys	Ser	Arg	Lys	Leu	Ala	Tyr	Arg	Pro	Pro	Lys		
				325					330					335		

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<210> 1037
<211> 511
<212> PRT
<213> Homo sapiens
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<400> 1037
His Gln Leu Gln Gly Pro Leu Pro Leu Arg Ala Leu Pro Trp His Ser
 1          5          10          15

Ser Arg Ser Arg Val Thr Cys Thr Arg Cys Phe Ser Trp Met His Pro
          20          25          30

Ser Pro Met His Pro Leu Arg Ala Gly Ser Lys Ser Gln Gly Ser Arg
          35          40          45

Ser Pro Ala Pro Ser Pro Met Arg Ala Ala Asn Arg Ser His Ser Ala
          50          55          60

Gly Arg Thr Pro Gly Arg Thr Pro Gly Lys Ser Ser Ser Lys Val Gln
65          70          75          80

Thr Thr Pro Ser Lys Pro Gly Gly Asp Arg Tyr Ile Pro His Arg Ser
          85          90          95

Ala Ala Gln Met Glu Val Ala Ser Phe Leu Leu Ser Lys Glu Asn Gln
          100          105          110

Pro Glu Asn Ser Gln Thr Pro Thr Lys Lys Glu His Gln Lys Ala Trp
          115          120          125

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1017

Ala	Leu	Asn	Leu	Asn	Gly	Phe	Asp	Val	Glu	Glu	Ala	Lys	Ile	Leu	Arg	130	135	140	
Leu	Ser	Gly	Lys	Pro	Gln	Asn	Ala	Pro	Glu	Gly	Tyr	Gln	Asn	Arg	Leu	145	150	155	160
Lys	Val	Leu	Tyr	Ser	Gln	Lys	Ala	Thr	Pro	Gly	Ser	Ser	Arg	Lys	Thr	165	170	175	
Cys	Arg	Tyr	Ile	Pro	Ser	Leu	Pro	Asp	Arg	Ile	Leu	Asp	Ala	Pro	Glu	180	185	190	
Ile	Arg	Asn	Asp	Tyr	Tyr	Leu	Asn	Leu	Val	Asp	Trp	Ser	Ser	Gly	Asn	195	200	205	
Val	Leu	Ala	Val	Ala	Leu	Asp	Asn	Ser	Val	Tyr	Leu	Trp	Ser	Ala	Ser	210	215	220	
Ser	Gly	Asp	Ile	Leu	Gln	Leu	Leu	Gln	Met	Glu	Gln	Pro	Gly	Glu	Tyr	225	230	235	240
Ile	Ser	Ser	Val	Ala	Trp	Ile	Lys	Glu	Gly	Asn	Tyr	Leu	Ala	Val	Gly	245	250	255	
Thr	Ser	Ser	Ala	Glu	Val	Gln	Leu	Trp	Asp	Val	Gln	Gln	Gln	Lys	Arg	260	265	270	
Leu	Arg	Asn	Met	Thr	Ser	His	Ser	Ala	Arg	Val	Gly	Ser	Leu	Ser	Trp	275	280	285	
Asn	Ser	Tyr	Ile	Leu	Ser	Ser	Gly	Ser	Arg	Ser	Gly	His	Ile	His	His	290	295	300	
His	Asp	Val	Arg	Val	Ala	Glu	His	His	Val	Ala	Thr	Leu	Ser	Gly	His	305	310	315	320
Ser	Gln	Glu	Val	Cys	Gly	Leu	Arg	Trp	Ala	Pro	Asp	Gly	Arg	His	Leu	325	330	335	
Ala	Ser	Gly	Gly	Asn	Asp	Asn	Leu	Val	Asn	Val	Trp	Pro	Ser	Ala	Pro	340	345	350	
Gly	Glu	Gly	Gly	Trp	Val	Pro	Leu	Gln	Thr	Phe	Thr	Gln	His	Gln	Gly	355	360	365	
Ala	Val	Lys	Ala	Val	Ala	Trp	Cys	Pro	Trp	Gln	Ser	Asn	Val	Leu	Ala	370	375	380	
Thr	Gly	Gly	Gly	Thr	Ser	Asp	Arg	His	Ile	Arg	Ile	Trp	Asn	Val	Cys	385	390	395	400

1018

Ser Gly Ala Cys Leu Ser Ala Val Asp Ala His Ser Gln Val Cys Ser
 405 410 415
 Ile Leu Trp Ser Pro His Tyr Lys Glu Leu Ile Ser Gly His Gly Phe
 420 425 430
 Ala Gln Asn Gln Leu Val Ile Trp Lys Tyr Pro Thr Met Ala Lys Val
 435 440 445
 Ala Glu Leu Lys Gly His Thr Ser Arg Val Leu Ser Leu Thr Met Ser
 450 455 460
 Pro Asp Gly Ala Thr Val Ala Ser Ala Ala Asp Glu Thr Leu Arg
 465 470 475 480
 Leu Trp Arg Cys Phe Glu Leu Asp Pro Ala Arg Arg Arg Glu Arg Glu
 485 490 495
 Lys Ala Ser Ala Ala Lys Ser Ser Leu Ile His Gln Gly Ile Arg
 500 505 510

<210> 1038

<211> 209

<212> PRT

<213> Homo sapiens

<400> 1038

His Glu Pro Pro Ser Ala Ser Ser Val Ala Gly Asp Leu Gly Arg Gly
 1 5 10 15
 Thr Arg Thr Glu Val Glu Ala Arg Ala Arg Pro Gly Ala Glu Ser
 20 25 30
 Ala Pro Ala Ala Ala Met Pro Asp Ser Trp Asp Lys Asp Val Tyr Pro
 35 40 45
 Glu Pro Pro Arg Arg Thr Pro Val Gln Pro Asn Pro Ile Val Tyr Met
 50 55 60
 Met Lys Ala Phe Asp Leu Ile Val Asp Arg Pro Val Thr Leu Val Arg
 65 70 75 80
 Glu Phe Ile Glu Arg Gln His Ala Lys Asn Arg Tyr Tyr Tyr Tyr His
 85 90 95
 Arg Gln Tyr Arg Arg Val Pro Asp Ile Thr Glu Cys Lys Glu Glu Asp
 100 105 110

1019

Ile Met Cys Met Tyr Glu Ala Glu Met Gln Trp Lys Arg Asp Tyr Lys
 115 120 125

Val Asp Gln Glu Ile Ile Asn Ile Met Gln Asp Arg Leu Lys Ala Cys
 130 135 140

Gln Gln Arg Glu Gly Gln Asn Tyr Gln Gln Asn Cys Ile Lys Glu Val
 145 150 155 160

Glu Gln Phe Thr Gln Val Ala Lys Ala Tyr Gln Asp Arg Tyr Gln Asp
 165 170 175

Leu Gly Ala Tyr Ser Ser Ala Arg Lys Cys Leu Ala Lys Gln Arg Gln
 180 185 190

Arg Met Leu Gln Glu Arg Lys Ala Ala Lys Glu Ala Ala Ala Ala Thr
 195 200 205

Ser

<210> 1039

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1039

Leu Ala Ala Pro Asp Leu Ser Lys Pro Arg Gly Tyr His Trp Asp Thr
 1 5 10 15

Ser Asp Trp Met Pro Ser Val Pro Leu Pro Asp Ile Gln Glu Phe Pro
 20 25 30

Asn Tyr Glu Val Ile Asp Glu Gln Thr Pro Leu Tyr Ser Ala Asp Pro
 35 40 45

Asn Ala Ile Asp Thr Asp Tyr Tyr Pro Gly Gly Tyr Asp Ile Glu Ser
 50 55 60

Asp Phe Pro Pro Pro Glu Asp Phe Pro Ala Ala Asp Glu Leu Pro
 65 70 75 80

Pro Leu Pro Pro Glu Phe Ser Asn Gln Phe Glu Ser Ile His Pro Pro
 85 90 95

1020

Arg Asp Met Pro Ala Ala Gly Ser Leu Gly Ser Ser Ser Arg Asn Arg
 100 105 110
 Gln Arg Phe Asn Leu Asn Gln Tyr Leu Pro Asn Phe Tyr Pro Leu Asp
 115 120 125
 Met Ser Glu Pro Gln Thr Lys Gly Thr Gly Glu Asn Ser Thr Cys Arg
 130 135 140
 Glu Pro His Ala Pro Tyr Pro Pro Xaa Tyr Gln Arg His Phe Glu Ala
 145 150 155 160
 Pro Ala Val Glu Ser Met Pro Met Ser Val Tyr Ala Ser Thr Ala Ser
 165 170 175
 Cys Ser Asp Val Ser Ala Cys Cys Glu Val Glu Ser Glu Val Met Met
 180 185 190
 Ser Asp Tyr Glu Ser Gly Asp Asp Gly His Phe Glu Glu Val Thr Ile
 195 200 205
 Pro Pro Leu Asp Ser Gln Gln His Thr Glu Val
 210 215

<210> 1040

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1040

Phe Asp Leu Pro Tyr Arg Ala Glu Phe Gly Xaa Pro Gly Pro Pro Leu
 1 5 10 15
 Ser Ala Ala Cys Ser Trp Lys Phe Arg Leu Gly Cys Leu Leu Gly Ala
 20 25 30
 Met Glu Ser Asp Phe Tyr Leu Arg Tyr Tyr Val Gly His Lys Gly Lys
 35 40 45
 Phe Gly His Glu Phe Leu Glu Phe Glu Phe Arg Pro Asp Gly Lys Leu
 50 55 60
 Arg Tyr Ala Asn Asn Ser Asn Tyr Lys Asn Asp Val Met Ile Arg Lys

1021

65					70						75				80
Glu	Ala	Tyr	Val	His	Lys	Ser	Val	Met	Glu	Glu	Leu	Lys	Arg	Ile	Ile
				85					90					95	
Asp	Asp	Ser	Glu	Ile	Thr	Lys	Glu	Asp	Asp	Ala	Leu	Trp	Pro	Pro	Pro
			100					105					110		
Asp	Arg	Val	Gly	Arg	Gln	Glu	Leu	Glu	Ile	Val	Ile	Gly	Asp	Glu	His
		115					120					125			
Ile	Ser	Phe	Thr	Thr	Ser	Lys	Ile	Gly	Ser	Leu	Ile	Asp	Val	Asn	Gln
	130					135					140				
Ser	Lys	Asp	Pro	Glu	Gly	Leu	Arg	Val	Phe	Tyr	Tyr	Leu	Val	Gln	Asp
145					150					155					160
Leu	Lys	Cys	Leu	Val	Phe	Ser	Leu	Ile	Gly	Leu	His	Phe	Lys	Ile	Lys
				165					170					175	
Pro Ile															

<210> 1041
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1041
 Leu Val Pro Asn Ser Ala Arg Ala Gly Ala Ser Tyr Ala Ala Ala Ala
 1 5 10 15
 Val Thr Met Ala His Tyr Lys Ala Ala Asp Ser Lys Arg Glu Gln Phe
 20 25 30
 Arg Arg Tyr Leu Glu Lys Ser Gly Val Leu Asp Thr Leu Thr Lys Val
 35 40 45
 Leu Val Ala Leu Tyr Glu Glu Pro Glu Lys Pro Asn Ser Ala Leu Asp
 50 55 60
 Phe Leu Lys His His Leu Gly Ala Ala Thr Pro Glu Asn Pro Glu Ile
 65 70 75 80
 Glu Leu Leu Arg Leu Glu Leu Ala Glu Met Lys Glu Lys Tyr Glu Ala
 85 90 95
 Ile Val Glu Glu Asn Lys Lys Leu Lys Ala Lys Leu Ala Gln Tyr Glu
 100 105 110

1022

Pro Pro Gln Glu Glu Lys Arg Ala Glu
 115 120

<210> 1042

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1042

Val Asp Pro Arg Val Arg Pro Arg Ser Val Asn Gly Glu Leu Gln Lys
 1 5 10 15

Ala Ile Asp Leu Phe Thr Asp Ala Ile Lys Leu Asn Pro Arg Leu Ala
 20 25 30

Ile Leu Tyr Ala Lys Arg Ala Ser Val Phe Val Lys Leu Gln Lys Pro
 35 40 45

Asn Ala Ala Ile Arg Asp Cys Asp Arg Ala Ile Glu Ile Asn Pro Asp
 50 55 60

Ser Ala Gln Pro Tyr Lys Trp Arg Gly Lys Ala His Arg Leu Leu Gly
 65 70 75 80

His Trp Glu Glu Ala Ala His Asp Leu Ala Leu Ala Cys Lys Leu Asp
 85 90 95

Tyr Asp Glu Asp Ala Ser Ala Met Leu Lys Glu Val Gln Pro Arg Ala
 100 105 110

Gln Lys Ile Ala Glu His Arg Arg Lys Tyr Glu Arg Lys Arg Glu Glu
 115 120 125

Arg Glu Ile Lys Glu Arg Ile Glu Arg Val Lys Lys Ala Arg Glu Glu
 130 135 140

His Glu Arg Ala Gln Arg Glu Glu Glu Ala Arg Arg Gln Ser Gly Ala
 145 150 155 160

Gln Tyr Gly Ser Phe Pro Gly Gly Phe Pro Gly Gly Met Pro Gly Asn
 165 170 175

Phe Pro Gly Gly Met Pro Gly Met Gly Gly Gly Met Pro Gly Met Ala
 180 185 190

Gly Met Pro Gly Leu Asn Glu Ile Leu Ser Asp Pro Glu Val Leu Ala
 195 200 205

1023

Ala Met Gln Asp Pro Glu Val Met Val Ala Phe Gln Asp Val Ala Gln
 210 215 220

Asn Pro Ala Asn Met Ser Lys Tyr Gln Ser Asn Pro Lys Val Met Asn
 225 230 235 240

Leu Ile Ser Lys Leu Ser Ala Lys Phe Gly Gly Gln Ala
 245 250

<210> 1043

<211> 343

<212> PRT

<213> Homo sapiens

<400> 1043

Met Lys Thr Cys Gln Glu Glu Lys Leu Met Gly His Leu Gly Val Val
 1 5 10 15

Leu Tyr Glu Tyr Leu Gly Glu Glu Tyr Pro Glu Val Leu Gly Ser Ile
 20 25 30

Leu Gly Ala Leu Lys Ala Ile Val Asn Val Ile Gly Met His Lys Met
 35 40 45

Thr Pro Pro Ile Lys Asp Leu Leu Pro Arg Leu Thr Pro Ile Leu Lys
 50 55 60

Asn Arg His Glu Lys Val Gln Glu Asn Cys Ile Asp Leu Val Gly Arg
 65 70 75 80

Ile Ala Asp Arg Gly Ala Glu Tyr Val Ser Ala Arg Glu Trp Met Arg
 85 90 95

Ile Cys Phe Glu Leu Leu Glu Leu Leu Lys Ala His Lys Lys Ala Ile
 100 105 110

Arg Arg Ala Thr Val Asn Thr Phe Gly Tyr Ile Ala Lys Ala Ile Gly
 115 120 125

Pro His Asp Val Leu Ala Thr Leu Leu Asn Asn Leu Lys Val Gln Glu
 130 135 140

Arg Gln Asn Arg Val Cys Thr Thr Val Ala Ile Ala Ile Val Ala Glu
 145 150 155 160

Thr Cys Ser Pro Phe Thr Val Leu Pro Ala Leu Met Asn Glu Tyr Arg
 165 170 175

Val Pro Glu Leu Asn Val Gln Asn Gly Val Leu Lys Ser Leu Ser Phe

				180				185				190			
Leu	Phe	Glu	Tyr	Ile	Gly	Glu	Met	Gly	Lys	Asp	Tyr	Ile	Tyr	Ala	Val
		195				200						205			
Thr	Pro	Leu	Leu	Glu	Asp	Ala	Leu	Met	Asp	Arg	Asp	Leu	Val	His	Arg
		210				215				220					
Gln	Thr	Ala	Ser	Ala	Val	Val	Gln	His	Met	Ser	Leu	Gly	Val	Tyr	Gly
225				230						235				240	
Phe	Gly	Cys	Glu	Asp	Ser	Leu	Asn	His	Leu	Leu	Asn	Tyr	Val	Trp	Pro
				245				250						255	
Asn	Val	Phe	Glu	Thr	Ser	Pro	His	Val	Ile	Gln	Ala	Val	Met	Gly	Ala
		260						265				270			
Leu	Glu	Gly	Leu	Arg	Val	Ala	Ile	Gly	Pro	Cys	Arg	Met	Leu	Gln	Tyr
		275				280						285			
Cys	Leu	Gln	Gly	Leu	Phe	His	Pro	Ala	Arg	Lys	Val	Arg	Asp	Val	Tyr
290						295				300					
Trp	Lys	Ile	Tyr	Asn	Ser	Ile	Tyr	Ile	Gly	Ser	Gln	Asp	Ala	Leu	Ile
305				310						315				320	
Ala	His	Tyr	Pro	Arg	Ile	Tyr	Asn	Asp	Asp	Lys	Asn	Thr	Tyr	Ile	Arg
				325				330						335	
Tyr	Glu	Leu	Asp	Tyr	Ile	Leu									
		340													

Arg Gly Arg Xaa Asn Leu Glu Ser Thr Arg Val Arg Glu Leu Pro Gly
20 25 30

1025

Gly Ala Met Ser Cys Ile Asn Leu Pro Thr Val Leu Pro Gly Ser Pro
 35 40 45
 Ser Lys Thr Arg Gly Gln Ile Gln Val Ile Leu Gly Pro Met Phe Ser
 50 55 60
 Gly Lys Ser Thr Glu Leu Met Arg Arg Val Arg Arg Phe Gln Ile Ala
 65 70 75 80
 Gln Tyr Lys Cys Leu Val Ile Lys Tyr Ala Lys Asp Thr Arg Tyr Ser
 85 90 95
 Ser Ser Phe Cys Thr His Asp Arg Asn Thr Met Glu Ala Leu Pro Ala
 100 105 110
 Cys Leu Leu Arg Asp Val Ala Gln Glu Ala Leu Gly Val Ala Val Ile
 115 120 125
 Gly Ile Asp Glu Gly Gln Phe Phe Pro Asp Ile Val Glu Phe Cys Glu
 130 135 140
 Ala Met Ala Asn Ala Gly Lys Thr Val Ile Val Ala Ala Leu Asp Gly
 145 150 155 160
 Thr Phe Gln Arg Lys Pro Phe Gly Ala Ile Leu Asn Leu Val Pro Leu
 165 170 175
 Ala Glu Ser Val Val Lys Leu Thr Ala Val Cys Met Glu Cys Phe Arg
 180 185 190
 Glu Ala Ala Tyr Thr Lys Arg Leu Gly Thr Glu Lys Glu Val Glu Val
 195 200 205
 Ile Gly Gly Ala Asp Lys Tyr His Ser Val Cys Arg Leu Cys Tyr Phe
 210 215 220
 Lys Lys Ala Ser Gly Gln Pro Ala Gly Pro Asp Asn Lys Glu Asn Cys
 225 230 235 240
 Pro Val Pro Gly Lys Pro Gly Glu Ala Val Ala Ala Arg Lys Leu Phe
 245 250 255
 Ala Pro Gln Gln Ile Leu Gln Cys Ser Pro Ala Asn
 260 265

<210> 1045

<211> 139

<212> PRT

<213> Homo sapiens

1026

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1045

Pro Gly Gln Ser Arg Trp Gln Gly Pro Pro Leu Pro Leu Cys Gln Ala
 1 5 10 15

Gly Ser Ala Lys Ser Gly Glu Pro Gly Ala Gly Gly Lys Ala Gly Asp
 20 25 30

Ser Pro Ala Leu Pro Pro Pro Pro Leu Gly Ala Gln Gln Leu Leu Arg
 35 40 45

Lys Val Trp His Pro Trp Arg Gly Gly Ala Pro Gly Trp Ala Gly Ser
 50 55 60

Arg Trp Pro Gly Ala Trp Arg Cys Ala Ala Gly Ala Cys Met Ala Pro
 65 70 75 80

Arg Gly Thr Gln Ala Glu Glu Ser Pro Phe Val Gly Asn Pro Gly Asn
 85 90 95

Ile Thr Gly Ala Arg Gly Leu Thr Gly Thr Leu Arg Cys Gln Leu Gln
 100 105 110

Val Gln Gly Glu Pro Pro Glu Val His Trp Leu Arg Asp Gly Gln Xaa
 115 120 125

Leu Glu Leu Ala Asp Ser Thr Gln Thr Gln Val
 130 135

<210> 1046

<211> 416

<212> PRT

<213> Homo sapiens

<400> 1046

Ser Pro Ser Glu Arg Leu Gln Arg Gly Arg Glu Glu Gln Pro Ala Gly
 1 5 10 15

Gly Gly Gly Glu Ser Val Ser Ser Trp Glu Glu Gln Asn Arg Gly Gly
 20 25 30

Ala Pro Ala Gly Ala Gly Gly Gly Pro Thr Met Ala Ile Arg Lys Lys
 35 40 45

1027

Ser	Thr	Lys	Ser	Pro	Pro	Val	Leu	Ser	His	Glu	Phe	Val	Leu	Gln	Asn	50	55	60	
His	Ala	Asp	Ile	Val	Ser	Cys	Val	Ala	Met	Val	Phe	Leu	Leu	Gly	Leu	65	70	75	80
Met	Phe	Glu	Ile	Thr	Ala	Lys	Ala	Ser	Ile	Ile	Phe	Val	Thr	Leu	Gln	85	90	95	
Tyr	Asn	Val	Thr	Leu	Pro	Ala	Thr	Glu	Glu	Gln	Ala	Thr	Glu	Ser	Val	100	105	110	
Ser	Leu	Tyr	Tyr	Tyr	Gly	Ile	Lys	Asp	Leu	Ala	Thr	Val	Phe	Phe	Tyr	115	120	125	
Met	Leu	Val	Ala	Ile	Ile	Ile	His	Ala	Val	Ile	Gln	Glu	Tyr	Met	Leu	130	135	140	
Asp	Lys	Ile	Asn	Arg	Arg	Met	His	Phe	Ser	Lys	Thr	Lys	His	Ser	Lys	145	150	155	160
Phe	Asn	Glu	Ser	Gly	Gln	Leu	Ser	Ala	Phe	Tyr	Leu	Phe	Ala	Cys	Val	165	170	175	
Trp	Gly	Thr	Phe	Ile	Leu	Ile	Ser	Glu	Asn	Tyr	Ile	Ser	Asp	Pro	Thr	180	185	190	
Ile	Leu	Trp	Arg	Ala	Tyr	Pro	His	Asn	Leu	Met	Thr	Phe	Gln	Met	Lys	195	200	205	
Phe	Phe	Tyr	Ile	Ser	Gln	Leu	Ala	Tyr	Trp	Leu	His	Ala	Phe	Pro	Glu	210	215	220	
Leu	Tyr	Phe	Gln	Lys	Thr	Lys	Lys	Glu	Asp	Ile	Pro	Arg	Gln	Leu	Val	225	230	235	240
Tyr	Ile	Gly	Leu	Tyr	Leu	Phe	His	Ile	Ala	Gly	Ala	Tyr	Leu	Leu	Asn	245	250	255	
Leu	Asn	His	Leu	Gly	Leu	Val	Leu	Leu	Val	Leu	His	Tyr	Phe	Val	Glu	260	265	270	
Phe	Leu	Phe	His	Ile	Ser	Arg	Leu	Phe	Tyr	Phe	Ser	Asn	Glu	Lys	Tyr	275	280	285	
Gln	Lys	Gly	Phe	Ser	Leu	Trp	Ala	Val	Leu	Phe	Val	Leu	Gly	Arg	Leu	290	295	300	
Leu	Thr	Leu	Ile	Leu	Ser	Val	Leu	Thr	Val	Gly	Phe	Gly	Leu	Ala	Arg	305	310	315	320

1028

Ala Glu Asn Gln Lys Leu Asp Phe Ser Thr Gly Asn Phe Asn Val Leu
 325 330 335

Ala Val Arg Ile Ala Val Leu Ala Ser Ile Cys Val Thr Gln Ala Phe
 340 345 350

Met Met Trp Lys Phe Ile Asn Phe Gln Leu Arg Arg Trp Arg Glu His
 355 360 365

Ser Ala Phe Gln Ala Pro Ala Val Lys Lys Lys Pro Thr Val Thr Lys
 370 375 380

Gly Arg Ser Ser Lys Lys Gly Thr Glu Asn Gly Val Asn Gly Thr Leu
 385 390 395 400

Thr Ser Asn Val Ala Asp Ser Pro Arg Asn Lys Lys Glu Lys Ser Ser
 405 410 415

<210> 1047

<211> 466

<212> PRT

<213> Homo sapiens

<400> 1047

Pro Ala Ser Ser Gly Leu Leu Pro Leu Ser Arg Ser Asn Leu Tyr Ser
 1 5 10 15

Gly Arg Thr Gly Ile Pro Arg Ala Pro Pro Ala Leu Ala Ala Leu Ala
 20 25 30

Thr Ala Pro Gly Arg Arg Ala Pro Val His Thr Gly Ser Leu Leu Gly
 35 40 45

Thr Asn Ser Ser Thr Met Gly Leu Ala Trp Gly Leu Gly Val Leu Phe
 50 55 60

Leu Met His Val Cys Gly Thr Asn Arg Ile Pro Glu Ser Gly Gly Asp
 65 70 75 80

Asn Ser Val Phe Asp Ile Phe Glu Leu Thr Gly Ala Ala Arg Lys Gly
 85 90 95

Ser Gly Arg Arg Leu Val Lys Gly Pro Asp Pro Ser Ser Pro Ala Phe
 100 105 110

Arg Ile Glu Asp Ala Asn Leu Ile Pro Pro Val Pro Asp Asp Lys Phe

1029

115	120	125
Gln Asp Leu Val Asp Ala Val Arg Ala Glu Lys Gly Phe Leu Leu Leu		
130	135	140
Ala Ser Leu Arg Gln Met Lys Lys Thr Arg Gly Thr Leu Leu Ala Leu		
145	150	155
Glu Arg Lys Asp His Ser Gly Gln Val Phe Ser Val Val Ser Asn Gly		
	165	170
Lys Ala Gly Thr Leu Asp Leu Ser Leu Thr Val Gln Gly Lys Gln His		
	180	185
Val Val Ser Val Glu Glu Ala Leu Leu Ala Thr Gly Gln Trp Lys Ser		
	195	200
Ile Thr Leu Phe Val Gln Glu Asp Arg Ala Gln Leu Tyr Ile Asp Cys		
	210	215
Glu Lys Met Glu Asn Ala Glu Leu Asp Val Pro Ile Gln Ser Val Phe		
225	230	235
Thr Arg Asp Leu Ala Ser Ile Ala Arg Leu Arg Ile Ala Lys Gly Gly		
	245	250
Val Asn Asp Asn Phe Gln Gly Val Leu Gln Asn Val Arg Phe Val Phe		
	260	265
Gly Thr Thr Pro Glu Asp Ile Leu Arg Asn Lys Gly Cys Ser Ser Ser		
	275	280
Thr Ser Val Leu Leu Thr Leu Asp Asn Asn Val Val Asn Gly Ser Ser		
	290	295
Pro Ala Ile Arg Thr Asn Tyr Ile Gly His Lys Thr Lys Asp Leu Gln		
305	310	315
Ala Ile Cys Gly Ile Ser Cys Asp Glu Leu Ser Ser Met Val Leu Glu		
	325	330
Leu Arg Gly Leu Arg Thr Ile Val Thr Thr Leu Gln Asp Ser Ile Arg		
	340	345
Lys Val Thr Glu Glu Asn Lys Glu Leu Ala Asn Glu Leu Arg Arg Pro		
	355	360
Pro Leu Cys Tyr His Asn Gly Val Gln Tyr Arg Asn Asn Glu Glu Trp		
	370	375
Thr Val Asp Ser Cys Thr Glu Cys His Cys Gln Asn Ser Val Thr Ile		
		380

1030

[illegible]

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<210> 1048
<211> 217
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (186)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<400> 1048
Asp Pro Arg Val Arg Gln Ser His Ile Ser Asp Thr Ser Val Val Val
  1             5             10            15
```

Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp Cys Ile Ile Ala Glu
20 25 30

Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg Ser Arg Ala Glu Ala
35 40 45

Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met Lys Ala Thr Val Ile
50 55 60

1031

Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu Glu Ile Asn Glu Leu
65 70 75 80

Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val Glu Asn Ala Lys Cys
85 90 95

Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln Ser Glu Gln Gln Gly
100 105 110

Glu Ala Ala Leu Ser Asp Ala Arg Cys Xaa Leu Ala Glu Leu Glu Gly
115 120 125

Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys Leu Ile Arg Glu Tyr
130 135 140

Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp Ile Glu Ile Ala Thr
145 150 155 160

Tyr Arg Arg Leu Leu Glu Gly Glu Glu Gln Arg Leu Cys Glu Gly Ile
165 170 175

Gly Ala Val Asn Val Cys Val Ser Ser Xaa Arg Gly Gly Val Val Cys
180 185 190

Gly Asp Leu Cys Val Ser Gly Xaa Arg Pro Val Thr Ala Val Ser Ala
195 200 205

Ala Leu Arg Ala Thr Gly Thr Trp Arg
210 215

<210> 1049

<211> 406

<212> PRT

<213> Homo sapiens

<400> 1049

Gly Ser Ala Ala Ala Arg Tyr Leu Ser Ala Thr Trp Arg Asn Trp Ile
1 5 10 15

Ser Leu Pro Pro Ala Gly Leu Pro Ala Thr Ala Gly Leu Arg His Ser
20 25 30

Gly Ser Leu Met Ala Ala Thr Cys Glu Ile Ser Asn Ile Phe Ser Asn
35 40 45

Tyr Phe Ser Ala Met Tyr Ser Ser Glu Asp Ser Thr Leu Ala Ser Val
50 55 60

1032

Pro	Pro	Ala	Ala	Thr	Phe	Gly	Ala	Asp	Asp	Leu	Val	Leu	Thr	Leu	Ser	
65						70				75					80	
Asn	Pro	Gln	Met	Ser	Leu	Glu	Gly	Thr	Glu	Lys	Ala	Ser	Trp	Leu	Gly	
				85					90					95		
Glu	Gln	Pro	Gln	Phe	Trp	Ser	Lys	Thr	Gln	Val	Leu	Asp	Trp	Ile	Ser	
			100					105					110			
Tyr	Gln	Val	Glu	Lys	Asn	Lys	Tyr	Asp	Ala	Ser	Ala	Ile	Asp	Phe	Ser	
		115					120						125			
Arg	Cys	Asp	Met	Asp	Gly	Ala	Thr	Leu	Cys	Asn	Cys	Ala	Leu	Glu	Glu	
	130					135					140					
Leu	Arg	Leu	Val	Phe	Gly	Pro	Leu	Gly	Asp	Gln	Leu	His	Ala	Gln	Leu	
145					150					155					160	
Arg	Asp	Leu	Thr	Ser	Ser	Ser	Ser	Asp	Glu	Leu	Ser	Trp	Ile	Ile	Glu	
				165					170					175		
Leu	Leu	Glu	Lys	Asp	Gly	Met	Ala	Phe	Gln	Glu	Ala	Leu	Asp	Pro	Gly	
			180					185					190			
Pro	Phe	Asp	Gln	Gly	Ser	Pro	Phe	Ala	Gln	Glu	Leu	Leu	Asp	Asp	Gly	
		195					200						205			
Gln	Gln	Ala	Ser	Pro	Tyr	His	Pro	Gly	Ser	Cys	Gly	Ala	Gly	Ala	Pro	
	210					215					220					
Ser	Pro	Gly	Ser	Ser	Asp	Val	Ser	Thr	Ala	Gly	Thr	Gly	Ala	Ser	Arg	
225					230					235					240	
Ser	Ser	His	Ser	Ser	Asp	Ser	Gly	Gly	Ser	Asp	Val	Asp	Leu	Asp	Pro	
				245					250					255		
Thr	Asp	Gly	Lys	Leu	Phe	Pro	Ser	Asp	Gly	Phe	Arg	Asp	Cys	Lys	Lys	
			260					265					270			
Gly	Asp	Pro	Lys	His	Gly	Lys	Arg	Lys	Arg	Gly	Arg	Pro	Arg	Lys	Leu	
		275					280					285				
Ser	Lys	Glu	Tyr	Trp	Asp	Cys	Leu	Glu	Gly	Lys	Lys	Ser	Lys	His	Ala	
	290					295					300					
Pro	Arg	Gly	Thr	His	Leu	Trp	Glu	Phe	Ile	Arg	Asp	Ile	Leu	Ile	His	
305					310					315					320	
Pro	Glu	Leu	Asn	Glu	Gly	Leu	Met	Lys	Trp	Glu	Asn	Arg	His	Glu	Gly	
				325					330					335		

1033

Val Phe Lys Phe Leu Arg Ser Glu Ala Val Ala Gln Leu Trp Gly Gln
 340 345 350

Lys Lys Lys Asn Ser Asn Met Thr Tyr Glu Lys Leu Ser Arg Ala Met
 355 360 365

Arg Tyr Tyr Tyr Lys Arg Glu Ile Leu Glu Arg Val Asp Gly Arg Arg
 370 375 380

Leu Val Tyr Lys Phe Gly Lys Asn Ser Ser Gly Trp Lys Glu Glu Glu
 385 390 395 400

Val Leu Gln Ser Arg Asn
 405

<210> 1050

<211> 251

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1050

Arg Pro Ala Leu Asp Thr Cys Cys Pro Phe Pro Ala Arg Ile Leu Gly
 1 5 10 15

Ser Phe Pro Leu Ser Gln His Leu Gly Pro Ala Phe Asp Thr Thr Pro
 20 25 30

Arg Leu Pro Thr Leu Arg Ala Trp Ser Leu Pro Gln Gly Pro Leu Ser
 35 40 45

Trp Ala Met Ala Xaa Lys Gly Val Leu Gly Pro Gly Gln Leu Gly Ala
 50 55 60

Val Ala Ile Leu Leu Tyr Leu Gly Leu Leu Arg Ser Gly Thr Gly Ala
 65 70 75 80

Glu Gly Ala Glu Ala Xaa Cys Gly Val Ala Pro Gln Ala Arg Ile Thr
 85 90 95

1034

Gly Gly Ser Ser Ala Val Ala Gly Gln Trp Pro Trp Gln Val Ser Ile
 100 105 110
 Thr Tyr Glu Gly Val His Val Cys Gly Gly Ser Leu Val Ser Glu Gln
 115 120 125
 Trp Val Leu Ser Ala Ala His Cys Phe Pro Ser Glu His His Lys Glu
 130 135 140
 Ala Tyr Glu Val Lys Leu Gly Ala His Gln Leu Asp Ser Tyr Ser Glu
 145 150 155 160
 Asp Ala Lys Val Ser Thr Leu Lys Asp Ile Ile Pro His Pro Ser Tyr
 165 170 175
 Leu Gln Glu Gly Ser Gln Gly Asp Ile Ala Leu Leu Gln Leu Ser Arg
 180 185 190
 Pro Ile Thr Phe Ser Arg Tyr Ile Arg Pro Ile Cys Leu Pro Ala Ala
 195 200 205
 Asn Ala Ser Phe Pro Asn Gly Leu His Cys Thr Val Thr Gly Trp Gly
 210 215 220
 His Val Ala Pro Ser Val Ser Leu Leu Thr Pro Lys Pro Leu Gln Gln
 225 230 235 240
 Leu Glu Val Pro Leu Ile Ser Arg Glu Thr Trp
 245 250

<210> 1051

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1051

His Tyr Arg Arg Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Arg Gly Arg
 1 5 10 15
 Val Asp Ile Arg Arg Arg Ser Ser Arg Arg Pro Arg Glu Pro Pro Gly
 20 25 30
 Pro Ser Arg Arg Arg Arg Arg Arg Arg Pro Asp Pro Arg Thr Met Pro
 35 40 45
 Ser Glu Lys Thr Phe Lys Gln Arg Arg Thr Phe Glu Gln Arg Val Glu
 50 55 60
 Asp Val Arg Leu Ile Arg Glu Gln His Pro Thr Lys Ile Pro Val Ile

1035

65		70		75		80									
Ile	Glu	Arg	Tyr	Lys	Gly	Glu	Lys	Gln	Leu	Pro	Val	Leu	Asp	Lys	Thr
				85					90					95	
Lys	Phe	Leu	Val	Pro	Asp	His	Val	Asn	Met	Ser	Glu	Leu	Ile	Lys	Ile
			100					105					110		
Ile	Arg	Arg	Arg	Leu	Gln	Leu	Asn	Ala	Asn	Gln	Ala	Phe	Phe	Leu	Leu
			115				120					125			
Val	Asn	Gly	His	Ser	Met	Val	Ser	Val	Ser	Thr	Pro	Ile	Ser	Glu	Val
			130				135				140				
Tyr	Glu	Ser	Glu	Lys	Asp	Glu	Asp	Gly	Phe	Leu	Tyr	Met	Val	Tyr	Ala
145					150					155					160
Ser	Gln	Glu	Thr	Phe	Gly	Met	Lys	Leu	Ser	Val					
				165					170						

<210> 1052

<211> 189

<212> PRT

<213> Homo sapiens

<400> 1052

Gly	Gly	Pro	Thr	Cys	Ser	Ala	Arg	Cys	Glu	Pro	Val	Arg	Pro	Pro	Pro
1				5					10					15	
Ala	Pro	Glu	Gln	Pro	Ala	Ser	Leu	His	Arg	Leu	Leu	Ser	Val	Leu	Ser
			20					25					30		
Pro	Arg	Ala	Ala	Ile	Ala	Val	Met	Leu	Gly	Ala	Ala	Leu	Arg	Arg	Cys
		35					40					45			
Ala	Val	Ala	Ala	Thr	Thr	Arg	Ala	Asp	Pro	Arg	Gly	Leu	Leu	His	Ser
		50				55					60				
Ala	Arg	Thr	Pro	Gly	Pro	Ala	Val	Ala	Ile	Gln	Ser	Val	Arg	Cys	Tyr
65					70					75					80
Ser	His	Gly	Ser	Gln	Glu	Thr	Asp	Glu	Glu	Phe	Asp	Ala	Arg	Trp	Val
				85					90					95	
Thr	Tyr	Phe	Asn	Lys	Pro	Asp	Ile	Asp	Ala	Trp	Glu	Leu	Arg	Lys	Gly
			100					105					110		
Ile	Asn	Thr	Leu	Val	Thr	Tyr	Asp	Met	Val	Pro	Glu	Pro	Lys	Ile	Ile
			115				120					125			

1036

Asp Ala Ala Leu Arg Ala Cys Arg Arg Leu Asn Asp Phe Ala Ser Thr
 130 135 140

Val Arg Ile Leu Glu Val Val Lys Asp Lys Ala Gly Pro His Lys Glu
 145 150 155 160

Ile Tyr Pro Tyr Val Ile Gln Glu Leu Arg Pro Thr Leu Asn Glu Leu
 165 170 175

Gly Ile Ser Thr Pro Glu Glu Leu Gly Leu Asp Lys Val
 180 185

<210> 1053

<211> 315

<212> PRT

<213> Homo sapiens

<400> 1053

Arg His Ser Ala Ser Pro Arg Cys Arg Leu Pro Pro Thr Glu Pro Val
 1 5 10 15

Ser Gly Leu Arg Ala Ser Gly Glu Met Leu Leu Pro Leu Leu Leu Leu
 20 25 30

Leu Pro Met Cys Trp Ala Val Glu Val Lys Arg Pro Arg Gly Val Ser
 35 40 45

Leu Thr Asn His His Phe Tyr Asp Glu Ser Lys Pro Phe Thr Cys Leu
 50 55 60

Asp Gly Ser Ala Thr Ile Pro Phe Asp Gln Val Asn Asp Asp Tyr Cys
 65 70 75 80

Asp Cys Lys Asp Gly Ser Asp Glu Pro Gly Thr Ala Ala Cys Pro Asn
 85 90 95

Gly Ser Phe His Cys Thr Asn Thr Gly Tyr Lys Pro Leu Tyr Ile Pro
 100 105 110

Ser Asn Arg Val Asn Asp Gly Val Cys Asp Cys Cys Asp Gly Thr Asp
 115 120 125

Glu Tyr Asn Ser Gly Val Ile Cys Glu Asn Thr Cys Lys Glu Lys Gly
 130 135 140

Arg Lys Glu Arg Glu Ser Leu Gln Gln Met Ala Glu Val Thr Arg Glu
 145 150 155 160

1037

Gly Phe Arg Leu Lys Lys Ile Leu Ile Glu Asp Trp Lys Lys Ala Arg
 165 170 175
 Glu Glu Lys Gln Lys Lys Leu Ile Glu Leu Gln Ala Gly Lys Lys Ser
 180 185 190
 Leu Glu Asp Gln Val Glu Met Leu Arg Thr Val Lys Glu Glu Ala Glu
 195 200 205
 Lys Pro Glu Arg Glu Ala Lys Glu Gln His Gln Lys Leu Trp Glu Glu
 210 215 220
 Gln Leu Ala Ala Ala Lys Ala Gln Gln Glu Gln Glu Leu Ala Ala Asp
 225 230 235 240
 Ala Phe Lys Glu Leu Asp Asp Asp Met Asp Gly Thr Val Ser Val Thr
 245 250 255
 Glu Leu Gln Thr His Pro Glu Leu Asp Thr Asp Gly Asp Gly Ala Leu
 260 265 270
 Ser Glu Ala Glu Ala Gln Ala Leu Leu Ser Gly Asp Thr Gln Thr Asp
 275 280 285
 Ala Thr Ser Phe Tyr Asp Arg Val Trp Gly Pro Gly Gly Ala Gly Pro
 290 295 300
 His Ser Gln Ala Pro Thr Ala Phe Lys Asp Gly
 305 310 315

<210> 1054

<211> 138

<212> PRT

<213> Homo sapiens

<400> 1054

Val Trp Lys Val Ile Val Trp Ser His Ser Ser Leu Ile Thr Leu Leu
 1 5 10 15
 Gly Ile Leu Glu Glu Lys Gly Ser Lys Thr Tyr Thr His Thr Pro Thr
 20 25 30
 Gln Ser Asn Ser Val Phe Lys Gln Ile Pro Arg Ile Leu Gly Pro Gly
 35 40 45
 Leu Asn Lys Ala Gly Lys Phe Pro Ser Leu Leu Thr His Asn Glu Asn
 50 55 60
 Met Val Ala Lys Val Asp Glu Val Lys Ser Thr Ile Lys Phe Gln Met

65	70							75							80		
Lys	Lys	Val	Leu	Cys	Leu	Ala	Val	Ala	Val	Gly	His	Val	Lys	Met	Thr		
				85					90					95			
Asp	Asp	Glu	Leu	Val	Tyr	Asn	Ile	His	Leu	Ala	Val	Asn	Phe	Leu	Val		
			100					105					110				
Ser	Leu	Leu	Lys	Lys	Asn	Trp	Gln	Asn	Val	Arg	Ala	Leu	Tyr	Ile	Lys		
		115					120					125					
Ser	Thr	Met	Gly	Lys	Pro	Gln	Arg	Leu	Tyr								
	130					135											

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<400> 1055
Gly Thr Arg Glu Glu Ala Gly Val Asp Leu Val Ser Pro Thr Pro Leu
  1          5          10          15
Thr Pro Pro Asp Pro Gly Ala Ala Ser Ala Thr Ala Thr Ala Pro Ala
 20          25          30
Pro Ala Ala Ala Arg Arg Gly Glu Ala Met Ala Lys Val Ser Val Leu
 35          40          45
Asn Val Ala Val Leu Glu Asn Pro Ser Pro Phe His Ser Pro Phe Arg
 50          55          60
Phe Glu Ile Ser Phe Glu Cys Ser Glu Ala Leu Ala Asp Asp Leu Glu
 65          70          75          80
Trp Lys Ile Ile Tyr Val Gly Ser Ala Glu Ser Glu Glu Phe Asp Gln
 85          90          95
Ile Leu Asp Ser Val Leu Val Gly Pro Val Pro Ala Gly Arg His Met
100          105          110
Phe Val Phe Gln Ala Asp Ala Pro Asn Pro Ser Leu Ile Pro Glu Thr
115          120          125
Asp Ala Val Gly Val Thr Val Val Leu Ile Thr Cys Thr Tyr His Gly
130          135          140
Gln Glu Phe Ile Arg Val Gly Tyr Tyr Val Asn Asn Glu Tyr Leu Asn
145          150          155          160

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1039

Pro Glu Leu Arg Glu Asn Pro Pro Met Lys Pro Asp Phe Ser Gln Leu
 165 170 175

Gln Arg Asn Ile Leu Ala Ser Asn Pro Arg Val Thr Arg Phe His Ile
 180 185 190

Asn Trp Asp Asn Asn Met Asp Arg Leu Glu Ala Ile Glu Thr Gln Asp
 195 200 205

Pro Ser Leu Gly Cys Gly Leu Pro Leu Asn Cys Thr Pro Ile Lys Gly
 210 215 220

Leu Gly Leu Pro Gly Cys Ile Pro Gly Leu Leu Pro Glu Asn Ser Met
 225 230 235 240

Asp Cys Ile

<210> 1056

<211> 211

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1056

His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly Pro Glu Glu Thr
 1 5 10 15

Val Arg Leu Trp Pro Ala Ala Arg Ala Ala Met Asp Ala Ala Glu Val
 20 25 30

Glu Phe Leu Ala Glu Lys Glu Leu Val Thr Ile Ile Pro Asn Phe Ser
 35 40 45

Leu Asp Lys Ile Tyr Leu Ile Gly Gly Asp Leu Gly Pro Phe Asn Pro
 50 55 60

Gly Leu Pro Val Glu Val Pro Leu Trp Leu Ala Ile Asn Leu Lys Gln
 65 70 75 80

Arg Gln Lys Cys Arg Leu Leu Pro Pro Glu Trp Met Asp Val Glu Lys
 85 90 95

Leu Glu Lys Met Arg Asp His Glu Arg Lys Glu Glu Thr Phe Thr Pro

1040

100	105	110
Met Pro Ser Pro Tyr Tyr Met Glu Leu Thr Lys Leu Leu Leu Asn His		
115	120	125
Ala Ser Asp Asn Ile Pro Lys Ala Asp Glu Ile Arg Thr Leu Val Lys		
130	135	140
Asp Met Trp Asp Thr Arg Ile Ala Lys Leu Arg Val Ser Ala Asp Ser		
145	150	155
Phe Val Arg Gln Gln Glu Ala His Ala Lys Leu Asp Asn Leu Thr Leu		
165	170	175
Met Glu Ile Asn Thr Ser Gly Thr Phe Leu Thr Gln Ala Leu Asn His		
180	185	190
Met Tyr Lys Leu Arg Thr Asn Leu Gln Pro Leu Glu Ser Thr Gln Ser		
195	200	205
Gln Asp Phe		
210		

<210> 1057

<211> 407

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (343)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1057

Val Ile Leu Gly Ala Gly Leu Arg Asp Lys Asp Met Trp Ile Pro Val
1 5 10 15

Val Gly Leu Pro Arg Arg Leu Arg Leu Ser Ala Leu Ala Gly Ala Gly
20 25 30

Arg Phe Cys Ile Leu Gly Ser Glu Ala Ala Thr Arg Lys His Leu Pro
35 40 45

Ala Arg Asn His Cys Gly Leu Ser Asp Ser Ser Pro Gln Leu Trp Pro
50 55 60

Glu Pro Asp Phe Arg Asn Pro Pro Arg Lys Ala Ser Lys Ala Ser Leu
65 70 75 80

1041

Asp	Phe	Lys	Arg	Tyr	Val	Thr	Asp	Arg	Arg	Leu	Ala	Glu	Thr	Leu	Ala		
				85						90					95		
Gln	Ile	Tyr	Leu	Gly	Lys	Pro	Ser	Arg	Pro	Pro	His	Leu	Leu	Leu	Glu		
			100					105					110				
Cys	Asn	Pro	Gly	Pro	Gly	Ile	Leu	Thr	Gln	Ala	Leu	Leu	Glu	Ala	Gly		
		115					120					125					
Ala	Lys	Val	Val	Ala	Leu	Glu	Ser	Asp	Lys	Thr	Phe	Ile	Pro	His	Leu		
	130					135					140						
Glu	Ser	Leu	Gly	Lys	Asn	Leu	Asp	Gly	Lys	Leu	Arg	Val	Ile	His	Cys		
145					150					155					160		
Asp	Phe	Phe	Lys	Leu	Asp	Pro	Arg	Ser	Gly	Gly	Val	Ile	Lys	Pro	Pro		
			165						170					175			
Ala	Met	Ser	Ser	Arg	Gly	Leu	Phe	Lys	Asn	Leu	Gly	Ile	Glu	Ala	Val		
			180					185					190				
Pro	Trp	Thr	Ala	Asp	Ile	Pro	Leu	Lys	Val	Val	Gly	Met	Phe	Pro	Ser		
		195					200					205					
Arg	Gly	Glu	Lys	Arg	Ala	Leu	Trp	Lys	Leu	Ala	Tyr	Asp	Leu	Tyr	Ser		
	210					215					220						
Cys	Thr	Ser	Ile	Tyr	Lys	Phe	Gly	Arg	Ile	Glu	Val	Asn	Met	Phe	Ile		
225					230					235					240		
Gly	Glu	Lys	Glu	Phe	Gln	Lys	Leu	Met	Ala	Asp	Pro	Gly	Asn	Pro	Asp		
				245					250					255			
Leu	Tyr	His	Val	Leu	Ser	Val	Ile	Trp	Gln	Leu	Ala	Cys	Glu	Ile	Lys		
			260					265					270				
Val	Leu	His	Met	Glu	Pro	Trp	Ser	Ser	Phe	Asp	Ile	Tyr	Thr	Arg	Lys		
		275					280					285					
Gly	Pro	Leu	Glu	Asn	Pro	Lys	Arg	Arg	Glu	Leu	Leu	Asp	Gln	Leu	Gln		
	290					295					300						
Gln	Lys	Leu	Tyr	Leu	Ile	Gln	Met	Ile	Pro	Arg	Gln	Asn	Leu	Phe	Thr		
305					310					315					320		
Lys	Asn	Leu	Thr	Pro	Met	Asn	Tyr	Asn	Ile	Phe	Phe	His	Leu	Leu	Lys		
				325					330					335			
His	Cys	Phe	Gly	Arg	Arg	Xaa	Ala	Thr	Val	Ile	Asp	His	Leu	Arg	Ser		
			340					345					350				

1042

Leu Thr Pro Leu Asp Ala Arg Asp Ile Leu Met Gln Ile Gly Lys Gln
 355 360 365
 Glu Asp Glu Lys Val Val Asn Met His Pro Gln Asp Phe Lys Thr Leu
 370 375 380
 Phe Glu Thr Ile Glu Arg Ser Lys Asp Cys Ala Tyr Lys Trp Leu Tyr
 385 390 395 400
 Asp Glu Thr Leu Glu Asp Arg
 405

<210> 1058
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1058
 Ser Ser Trp Val Gly Gly Ser Leu Arg Gln Ala Ala Thr Leu Glu Gly
 1 5 10 15
 Glu Gln Gly Ser Ala Val Ser Ala Ala Ser His Ala Arg Ser Asp Leu
 20 25 30
 Ser Leu Gly Thr Pro Gln Glu Pro Glu Asp Ser Ser Gly Gln Cys Arg
 35 40 45
 Trp Gly Val Gly Gly Glu Ser Gly Arg Glu Ala Leu Arg Ala Pro Ser
 50 55 60
 Pro Thr Thr Asn Leu Ala Leu Val Val Ile Phe Arg Gln Asn Phe Val
 65 70 75 80
 Val Phe Phe Pro Phe Tyr Asp Gly Phe
 85

<210> 1059
 <211> 457
 <212> PRT
 <213> Homo sapiens

<400> 1059
 Gly Thr Arg Pro Ser Ser Cys Ser Gln Thr Glu Ala Gln Pro Pro Ser
 1 5 10 15
 Pro Val Ser Ile Thr Ser Ala Ala Ser Met Ser Asp Lys Leu Pro Tyr
 20 25 30

1043

Lys Val Ala Asp Ile Gly Leu Ala Ala Trp Gly Arg Lys Ala Leu Asp
 35 40 45
 Ile Ala Glu Asn Glu Met Pro Gly Leu Met Arg Met Arg Glu Arg Tyr
 50 55 60
 Ser Ala Ser Lys Pro Leu Lys Gly Ala Arg Ile Ala Gly Cys Leu His
 65 70 75 80
 Met Thr Val Glu Thr Ala Val Leu Ile Glu Thr Leu Val Thr Leu Gly
 85 90 95
 Ala Glu Val Gln Trp Ser Ser Cys Asn Ile Phe Ser Thr Gln Asp His
 100 105 110
 Ala Ala Ala Ala Ile Ala Lys Ala Gly Ile Pro Val Tyr Ala Trp Lys
 115 120 125
 Gly Glu Thr Asp Glu Glu Tyr Leu Trp Cys Ile Glu Gln Thr Leu Tyr
 130 135 140
 Phe Lys Asp Gly Pro Leu Asn Met Ile Leu Asp Asp Gly Gly Asp Leu
 145 150 155 160
 Thr Asn Leu Ile His Thr Lys Tyr Pro Gln Leu Leu Pro Gly Ile Arg
 165 170 175
 Gly Ile Ser Glu Glu Thr Thr Thr Gly Val His Asn Leu Tyr Lys Met
 180 185 190
 Met Ala Asn Gly Ile Leu Lys Val Pro Ala Ile Asn Val Asn Asp Ser
 195 200 205
 Val Thr Lys Ser Lys Phe Asp Asn Leu Tyr Gly Cys Arg Glu Ser Leu
 210 215 220
 Ile Asp Gly Ile Lys Arg Ala Thr Asp Val Met Ile Ala Gly Lys Val
 225 230 235 240
 Ala Val Val Ala Gly Tyr Gly Asp Val Gly Lys Gly Cys Ala Gln Ala
 245 250 255
 Leu Arg Gly Phe Gly Ala Arg Val Ile Ile Thr Glu Ile Asp Pro Ile
 260 265 270
 Asn Ala Leu Gln Ala Ala Met Glu Gly Tyr Glu Val Thr Thr Met Asp
 275 280 285
 Glu Ala Cys Gln Glu Gly Asn Ile Phe Val Thr Thr Thr Gly Cys Ile
 290 295 300

1044

Asp Ile Ile Leu Gly Arg His Phe Glu Gln Met Lys Asp Asp Ala Ile
 305 310 315 320

Val Cys Asn Ile Gly His Phe Asp Val Glu Ile Asp Val Lys Trp Leu
 325 330 335

Asn Glu Asn Ala Val Glu Lys Val Asn Ile Lys Pro Gln Val Asp Arg
 340 345 350

Tyr Arg Leu Lys Asn Gly Arg Arg Ile Ile Leu Leu Ala Glu Gly Arg
 355 360 365

Leu Val Asn Leu Gly Cys Ala Met Gly His Pro Ser Phe Val Met Ser
 370 375 380

Asn Ser Phe Thr Asn Gln Val Met Ala Gln Ile Glu Leu Trp Thr His
 385 390 395 400

Pro Asp Lys Tyr Pro Val Gly Val His Phe Leu Pro Lys Lys Leu Asp
 405 410 415

Glu Ala Val Ala Glu Ala His Leu Gly Lys Leu Asn Val Lys Leu Thr
 420 425 430

Lys Leu Thr Glu Lys Gln Ala Gln Tyr Leu Gly Met Ser Cys Asp Gly
 435 440 445

Pro Phe Lys Pro Asp His Tyr Arg Tyr
 450 455

<210> 1060

<211> 511

<212> PRT

<213> Homo sapiens

<400> 1060

Glu Gly Val Met Ala Asp Gly Gln Val Ala Glu Leu Leu Leu Arg Arg
 1 5 10 15

Leu Glu Ala Ser Asp Gly Gly Leu Asp Ser Ala Glu Leu Ala Ala Glu
 20 25 30

Leu Gly Met Glu His Gln Ala Val Val Gly Ala Val Lys Ser Leu Gln
 35 40 45

Ala Leu Gly Glu Val Ile Glu Ala Glu Leu Arg Ser Thr Lys His Trp
 50 55 60

1045

Glu	Leu	Thr	Ala	Glu	Gly	Glu	Glu	Ile	Ala	Arg	Glu	Gly	Ser	His	Glu	65	70	75	80
Ala	Arg	Val	Phe	Arg	Ser	Ile	Pro	Pro	Glu	Gly	Leu	Ala	Gln	Ser	Glu	85	90	95	
Leu	Met	Arg	Leu	Pro	Ser	Gly	Lys	Val	Gly	Phe	Ser	Lys	Ala	Met	Ser	100	105	110	
Asn	Lys	Trp	Ile	Arg	Val	Asp	Lys	Ser	Ala	Ala	Asp	Gly	Pro	Arg	Val	115	120	125	
Phe	Arg	Val	Val	Asp	Ser	Met	Glu	Asp	Glu	Val	Gln	Arg	Arg	Leu	Gln	130	135	140	
Leu	Val	Arg	Gly	Gly	Gln	Ala	Glu	Lys	Leu	Gly	Glu	Lys	Glu	Arg	Ser	145	150	155	160
Glu	Leu	Arg	Lys	Arg	Lys	Leu	Leu	Ala	Glu	Val	Thr	Leu	Lys	Thr	Tyr	165	170	175	
Trp	Val	Ser	Lys	Gly	Ser	Ala	Phe	Ser	Thr	Ser	Ile	Ser	Lys	Gln	Glu	180	185	190	
Thr	Glu	Leu	Ser	Pro	Glu	Met	Ile	Ser	Ser	Gly	Ser	Trp	Arg	Asp	Arg	195	200	205	
Pro	Phe	Lys	Pro	Tyr	Asn	Phe	Leu	Ala	His	Gly	Val	Leu	Pro	Asp	Ser	210	215	220	
Gly	His	Leu	His	Pro	Leu	Leu	Lys	Val	Arg	Ser	Gln	Phe	Arg	Gln	Ile	225	230	235	240
Phe	Leu	Glu	Met	Gly	Phe	Thr	Glu	Met	Pro	Thr	Asp	Asn	Phe	Ile	Glu	245	250	255	
Ser	Ser	Phe	Trp	Asn	Phe	Asp	Ala	Leu	Phe	Gln	Pro	Gln	Gln	His	Pro	260	265	270	
Ala	Arg	Asp	Gln	His	Asp	Thr	Phe	Phe	Leu	Arg	Asp	Pro	Ala	Glu	Ala	275	280	285	
Leu	Gln	Leu	Pro	Met	Asp	Tyr	Val	Gln	Arg	Val	Lys	Arg	Thr	His	Ser	290	295	300	
Gln	Gly	Gly	Tyr	Gly	Ser	Gln	Gly	Tyr	Lys	Tyr	Asn	Trp	Lys	Leu	Asp	305	310	315	320
Glu	Ala	Arg	Lys	Asn	Leu	Leu	Arg	Thr	His	Thr	Thr	Ser	Ala	Ser	Ala	325	330	335	

1046

Arg Ala Leu Tyr Arg Leu Ala Gln Lys Lys Pro Phe Thr Pro Val Lys
 340 345 350

Tyr Phe Ser Ile Asp Arg Val Phe Arg Asn Glu Thr Leu Asp Ala Thr
 355 360 365

His Leu Ala Glu Phe His Gln Ile Glu Gly Val Val Ala Asp His Gly
 370 375 380

Leu Thr Leu Gly His Leu Met Gly Val Leu Arg Glu Phe Phe Thr Lys
 385 390 395 400

Leu Gly Ile Thr Gln Leu Arg Phe Lys Pro Ala Tyr Asn Pro Tyr Thr
 405 410 415

Glu Pro Ser Met Glu Val Phe Ser Tyr His Gln Gly Leu Lys Lys Trp
 420 425 430

Val Glu Val Gly Asn Ser Gly Val Phe Arg Pro Glu Met Leu Leu Pro
 435 440 445

Met Gly Leu Pro Glu Asn Val Ser Val Ile Ala Trp Gly Leu Ser Leu
 450 455 460

Glu Arg Pro Thr Met Ile Lys Tyr Gly Ile Asn Asn Ile Arg Glu Leu
 465 470 475 480

Val Gly His Lys Val Asn Leu Gln Met Val Tyr Asp Ser Pro Leu Cys
 485 490 495

Arg Leu Asp Ala Glu Pro Arg Pro Pro Pro Thr Gln Glu Ala Ala
 500 505 510

<210> 1061

<211> 228

<212> PRT

<213> Homo sapiens

<400> 1061

Arg Ala Ala Ser Thr Pro Arg Ala Ala Pro Gly Ala Ala Leu Leu Ser
 1 5 10 15

Pro Pro Gly Leu Arg Ala Ala Pro Ala Ala Leu Val Met Gly Glu Gly
 20 25 30

Thr Cys Glu Lys Arg Arg Asp Ala Glu Tyr Gly Ala Ser Pro Glu Gln
 35 40 45

Val Ala Asp Asn Gly Asp Asp His Ser Glu Gly Gly Leu Val Glu Asn

1047

50	55	60															
His	Val	Asp	Ser	Thr	Met	Asn	Met	Leu	Gly	Gly	Gly	Gly	Ser	Ala	Gly		
65					70					75					80		
Arg	Lys	Pro	Leu	Lys	Ser	Gly	Met	Lys	Glu	Leu	Ala	Val	Phe	Arg	Glu		
				85					90					95			
Lys	Val	Thr	Glu	Gln	His	Arg	Gln	Met	Gly	Lys	Gly	Gly	Lys	His	His		
			100					105					110				
Leu	Gly	Leu	Glu	Glu	Pro	Lys	Lys	Leu	Arg	Pro	Pro	Pro	Ala	Arg	Thr		
		115					120						125				
Pro	Cys	Gln	Gln	Glu	Leu	Asp	Gln	Val	Leu	Glu	Arg	Ile	Ser	Thr	Met		
	130					135					140						
Arg	Leu	Pro	Asp	Glu	Arg	Gly	Pro	Leu	Glu	His	Leu	Tyr	Ser	Leu	His		
145					150					155					160		
Ile	Pro	Asn	Cys	Asp	Lys	His	Gly	Leu	Tyr	Asn	Leu	Lys	Gln	Cys	Lys		
				165					170					175			
Met	Ser	Leu	Asn	Gly	Gln	Arg	Gly	Glu	Cys	Trp	Cys	Val	Asn	Pro	Asn		
			180					185					190				
Thr	Gly	Lys	Leu	Ile	Gln	Gly	Ala	Pro	Thr	Ile	Arg	Gly	Asp	Pro	Glu		
		195					200						205				
Cys	His	Leu	Phe	Tyr	Asn	Glu	Gln	Gln	Glu	Ala	Arg	Gly	Val	His	Thr		
	210					215					220						
Gln	Arg	Met	Gln														
225																	

<210> 1062

<211> 324

<212> PRT

<213> Homo sapiens

<400> 1062

Pro	Arg	Val	Met	Ala	Met	Ala	Thr	Lys	Gly	Gly	Thr	Val	Lys	Ala	Ala		
1				5					10					15			
Ser	Gly	Phe	Asn	Ala	Met	Glu	Asp	Ala	Gln	Thr	Leu	Arg	Lys	Ala	Met		
			20					25					30				
Lys	Gly	Leu	Gly	Thr	Asp	Glu	Asp	Ala	Ile	Ile	Ser	Val	Leu	Ala	Tyr		
		35					40					45					

1048

Arg	Asn	Thr	Ala	Gln	Arg	Gln	Glu	Ile	Arg	Thr	Ala	Tyr	Lys	Ser	Thr	50	55	60	
Ile	Gly	Arg	Asp	Leu	Ile	Asp	Asp	Leu	Lys	Ser	Glu	Leu	Ser	Gly	Asn	65	70	75	80
Phe	Glu	Gln	Val	Ile	Val	Gly	Met	Met	Thr	Pro	Thr	Val	Leu	Tyr	Asp	85	90	95	
Val	Gln	Glu	Leu	Arg	Arg	Ala	Met	Lys	Gly	Ala	Gly	Thr	Asp	Glu	Gly	100	105	110	
Cys	Leu	Ile	Glu	Ile	Leu	Ala	Ser	Arg	Thr	Pro	Glu	Glu	Ile	Arg	Arg	115	120	125	
Ile	Ser	Gln	Thr	Tyr	Gln	Gln	Gln	Tyr	Gly	Arg	Ser	Leu	Glu	Asp	Asp	130	135	140	
Ile	Arg	Ser	Asp	Thr	Ser	Phe	Met	Phe	Gln	Arg	Val	Leu	Val	Ser	Leu	145	150	155	160
Ser	Ala	Gly	Gly	Arg	Asp	Glu	Gly	Asn	Tyr	Leu	Asp	Asp	Ala	Leu	Val	165	170	175	
Arg	Gln	Asp	Ala	Gln	Asp	Leu	Tyr	Glu	Ala	Gly	Glu	Lys	Lys	Trp	Gly	180	185	190	
Thr	Asp	Glu	Val	Lys	Phe	Leu	Thr	Val	Leu	Cys	Ser	Arg	Asn	Arg	Asn	195	200	205	
His	Leu	Leu	His	Val	Phe	Asp	Glu	Tyr	Lys	Arg	Ile	Ser	Gln	Lys	Asp	210	215	220	
Ile	Glu	Gln	Ser	Ile	Lys	Ser	Glu	Thr	Ser	Gly	Ser	Phe	Glu	Asp	Ala	225	230	235	240
Leu	Leu	Ala	Ile	Val	Lys	Cys	Met	Arg	Asn	Lys	Ser	Ala	Tyr	Phe	Ala	245	250	255	
Glu	Lys	Leu	Tyr	Lys	Ser	Met	Lys	Gly	Leu	Gly	Thr	Asp	Asp	Asn	Thr	260	265	270	
Leu	Ile	Arg	Val	Met	Val	Ser	Arg	Ala	Glu	Ile	Asp	Met	Leu	Asp	Ile	275	280	285	
Arg	Ala	His	Phe	Lys	Arg	Leu	Tyr	Gly	Lys	Ser	Leu	Tyr	Ser	Phe	Ile	290	295	300	
Lys	Gly	Asp	Thr	Ser	Gly	Asp	Tyr	Arg	Lys	Val	Leu	Leu	Val	Leu	Cys	305	310	315	320

1049

Gly Gly Asp Asp

<210> 1063

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1063

Xaa	Tyr	Xaa	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Lys	Ile	Leu	Gly
1				5					10					15	

Ser	Gly	Ile	Ser	Ser	Ser	Ser	Val	Leu	His	Gly	Met	Val	Phe	Lys	Lys
			20					25					30		

Glu	Thr	Glu	Val	Xaa	Val	Thr	Ser	Val	Lys	Asp	Ala	Lys	Ile	Ala	Val
		35					40					45			

Tyr	Ser	Cys	Pro	Phe	Asp	Gly	Met	Ile	Thr	Glu	Thr	Lys	Gly	Thr	Val
		50				55						60			

Leu	Ile	Lys	Thr	Ala	Glu	Glu	Leu	Met	Asn	Phe	Ser	Lys	Gly	Glu	Glu
65					70					75				80	

Asn	Leu	Met	Asp	Ala	Gln	Val	Lys	Ala	Ile	Ala	Asp	Thr	Gly	Ala	Asn
				85					90					95	

Val	Val	Val	Thr	Gly	Gly	Lys	Val	Ala	Asp	Met	Ala	Leu	His	Tyr	Ala
			100					105					110		

Asn	Lys	Tyr	Asn	Ile	Met	Leu	Val	Arg	Leu	Asn	Ser	Lys	Trp	Asp	Leu
		115					120					125			

1050

Arg Arg Leu Cys Lys Thr Val Gly Ala Thr Ala Leu Pro Arg Leu Thr
 130 135 140
 Pro Pro Val Leu Glu Glu Met Gly His Cys Asp Ser Val Tyr Leu Ser
 145 150 155 160
 Glu Val Gly Asp Thr Gln Val Val Val Phe Lys His Glu Lys Glu Asp
 165 170 175
 Gly Ala Ile Ser Thr Ile Val Leu Arg Gly Ser Thr Asp Asn Leu Met
 180 185 190
 Asp Asp Ile Glu Arg Ala Val Asp Asp Gly Val Asn Thr Phe Lys Val
 195 200 205
 Leu Thr Arg Asp Lys Arg Leu Val Pro Gly Gly Gly Ala Thr Glu Ile
 210 215 220
 Glu Leu Ala Lys Gln Ile Thr Ser Tyr Gly Glu Thr Cys Pro Gly Leu
 225 230 235 240
 Glu Gln Tyr Ala Ile Lys Lys Phe Ala Glu Ala Phe Glu Ala Ile Pro
 245 250 255
 Arg Ala Leu Ala Glu Asn Ser Gly Val Lys Ala Asn Glu Val Ile Ser
 260 265 270
 Lys Leu Tyr Ala Val His Gln Glu Gly Asn Lys Asn Val Gly Leu Asp
 275 280 285
 Ile Glu Ala Glu Val Pro Ala Val Lys Asp Met Leu Glu Ala Gly Ile
 290 295 300
 Leu Asp Thr Tyr Leu Gly Lys Tyr Trp Ala Ile Lys Leu Ala Thr Asn
 305 310 315 320
 Ala Ala Val Thr Val Leu Arg Val Asp Gln Ile Ile Met Ala Lys Pro
 325 330 335
 Ala Gly Gly Pro Lys Pro Pro Ser Gly Lys Lys Asp Trp Asp Asp Asp
 340 345 350
 Gln Asn Asp
 355

<210> 1064

<211> 113

<212> PRT

<213> Homo sapiens

1051

<400> 1064

Ser Pro Phe Thr Leu His Cys Cys His Ser Thr Leu Tyr Asp Gly Arg
 1 5 10 15

Thr Gly Ser Ser Arg Glu Asn Cys Thr Val Thr Thr Val Phe Phe Thr
 20 25 30

Leu Phe Gln Gly Ser Leu Ser Pro Asp Ile Glu Glu Ile Ser Phe Arg
 35 40 45

Pro Glu Thr Gln Arg Pro His Ser Pro Val Ile Lys Pro Arg Phe His
 50 55 60

Ser Gly Pro Arg Ser Gly Ala Trp Pro Leu Leu Phe Gly Ser His Trp
 65 70 75 80

Glu Ala His Trp Pro Trp Ile Ile Ser Ser Cys Thr Pro Gly Val Leu
 85 90 95

Pro Ala Cys Leu Leu Ser Trp Thr Ala Val Cys Lys Lys Val Thr Lys
 100 105 110

Thr

<210> 1065

<211> 634

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (325)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1065

Val Gln Gly Phe Glu Ser Ala Thr Phe Leu Gly Tyr Phe Lys Ser Gly
 1 5 10 15

Leu Lys Tyr Lys Lys Gly Gly Val Ala Ser Gly Phe Lys His Val Val
 20 25 30

Pro Asn Glu Val Val Val Gln Arg Leu Phe Gln Val Lys Gly Arg Arg
 35 40 45

Val Val Arg Ala Thr Glu Val Pro Val Ser Trp Glu Ser Phe Asn Asn
 50 55 60

1052

Gly	Asp	Cys	Phe	Ile	Leu	Asp	Leu	Gly	Asn	Asn	Ile	His	Gln	Trp	Cys	
65					70					75					80	
Gly	Ser	Asn	Ser	Asn	Arg	Tyr	Glu	Arg	Leu	Lys	Ala	Thr	Gln	Val	Ser	
			85						90					95		
Lys	Gly	Ile	Arg	Asp	Asn	Glu	Arg	Ser	Gly	Arg	Ala	Arg	Val	His	Val	
			100					105					110			
Ser	Glu	Glu	Gly	Thr	Glu	Pro	Glu	Ala	Met	Leu	Gln	Val	Leu	Gly	Pro	
		115					120					125				
Lys	Pro	Ala	Leu	Pro	Ala	Gly	Thr	Glu	Asp	Thr	Ala	Lys	Glu	Asp	Ala	
130						135					140					
Ala	Asn	Arg	Lys	Leu	Ala	Lys	Leu	Tyr	Lys	Val	Ser	Asn	Gly	Ala	Gly	
145				150						155					160	
Thr	Met	Ser	Val	Ser	Leu	Val	Ala	Asp	Glu	Asn	Pro	Phe	Ala	Gln	Gly	
				165					170					175		
Ala	Leu	Lys	Ser	Glu	Asp	Cys	Phe	Ile	Leu	Asp	His	Gly	Lys	Asp	Gly	
			180					185					190			
Lys	Ile	Phe	Val	Trp	Lys	Gly	Lys	Gln	Ala	Asn	Thr	Glu	Glu	Arg	Lys	
		195					200						205			
Ala	Ala	Leu	Lys	Thr	Ala	Ser	Asp	Phe	Ile	Thr	Lys	Met	Asp	Tyr	Pro	
		210				215					220					
Lys	Gln	Thr	Gln	Val	Ser	Val	Leu	Pro	Glu	Gly	Gly	Glu	Thr	Pro	Leu	
225					230					235					240	
Phe	Lys	Gln	Phe	Phe	Lys	Asn	Trp	Arg	Asp	Pro	Asp	Gln	Thr	Asp	Gly	
			245						250					255		
Leu	Gly	Leu	Ser	Tyr	Leu	Ser	Ser	His	Ile	Ala	Asn	Val	Glu	Arg	Val	
			260					265					270			
Pro	Phe	Asp	Ala	Ala	Thr	Leu	His	Thr	Ser	Thr	Ala	Met	Ala	Ala	Gln	
		275					280					285				
His	Gly	Met	Asp	Asp	Asp	Gly	Thr	Gly	Gln	Lys	Gln	Ile	Trp	Arg	Ile	
	290					295					300					
Glu	Gly	Ser	Asn	Lys	Val	Pro	Val	Asp	Pro	Ala	Thr	Tyr	Gly	Gln	Phe	
305				310						315					320	
Tyr	Gly	Gly	Asp	Xaa	Tyr	Ile	Ile	Leu	Tyr	Asn	Tyr	Arg	His	Gly	Gly	
				325					330					335		

1053

Arg	Gln	Gly	Gln	Ile	Ile	Tyr	Asn	Trp	Gln	Gly	Ala	Gln	Ser	Thr	Gln	340	345	350	
Asp	Glu	Val	Ala	Ala	Ser	Ala	Ile	Leu	Thr	Ala	Gln	Leu	Asp	Glu	Glu	355	360	365	
Leu	Gly	Gly	Thr	Pro	Val	Gln	Ser	Arg	Val	Val	Gln	Gly	Lys	Glu	Pro	370	375	380	
Ala	His	Leu	Met	Ser	Leu	Phe	Gly	Gly	Lys	Pro	Met	Ile	Ile	Tyr	Lys	385	390	395	400
Gly	Gly	Thr	Ser	Arg	Glu	Gly	Gly	Gln	Thr	Ala	Pro	Ala	Ser	Thr	Arg	405	410	415	
Leu	Phe	Gln	Val	Arg	Ala	Asn	Ser	Ala	Gly	Ala	Thr	Arg	Ala	Val	Glu	420	425	430	
Val	Leu	Pro	Lys	Ala	Gly	Ala	Leu	Asn	Ser	Asn	Asp	Ala	Phe	Val	Leu	435	440	445	
Lys	Thr	Pro	Ser	Ala	Ala	Tyr	Leu	Trp	Val	Gly	Thr	Gly	Ala	Ser	Glu	450	455	460	
Ala	Glu	Lys	Thr	Gly	Ala	Gln	Glu	Leu	Leu	Arg	Val	Leu	Arg	Ala	Gln	465	470	475	480
Pro	Val	Gln	Val	Ala	Glu	Gly	Ser	Glu	Pro	Asp	Gly	Phe	Trp	Glu	Ala	485	490	495	
Leu	Gly	Gly	Lys	Ala	Ala	Tyr	Arg	Thr	Ser	Pro	Arg	Leu	Lys	Asp	Lys	500	505	510	
Lys	Met	Asp	Ala	His	Pro	Pro	Arg	Leu	Phe	Ala	Cys	Ser	Asn	Lys	Ile	515	520	525	
Gly	Arg	Phe	Val	Ile	Glu	Glu	Val	Pro	Gly	Glu	Leu	Met	Gln	Glu	Asp	530	535	540	
Leu	Ala	Thr	Asp	Asp	Val	Met	Leu	Leu	Asp	Thr	Trp	Asp	Gln	Val	Phe	545	550	555	560
Val	Trp	Val	Gly	Lys	Asp	Ser	Gln	Glu	Glu	Glu	Lys	Thr	Glu	Ala	Leu	565	570	575	
Thr	Ser	Ala	Lys	Arg	Tyr	Ile	Glu	Thr	Asp	Pro	Ala	Asn	Arg	Asp	Arg	580	585	590	
Arg	Thr	Pro	Ile	Thr	Val	Val	Lys	Gln	Gly	Phe	Glu	Pro	Pro	Ser	Phe	595	600	605	

1054

Val Gly Trp Phe Leu Gly Trp Asp Asp Asp Tyr Trp Ser Val Asp Pro
610 615 620

Leu Asp Arg Ala Met Ala Glu Leu Ala Ala
625 630

<210> 1066

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1066

Arg Ala Arg Gly Arg Cys Arg Arg Ser Pro Asp Gly Val Gly Ile Glu
1 5 10 15

Ala Pro Arg Lys Lys Val Lys Tyr Gln Glu Ile Gln Val Glu Glu Pro
20 25 30

Tyr Tyr Asp Cys His Glu Cys Thr Glu Thr Phe Thr Ser Ser Thr Ala
35 40 45

Phe Ser Glu His Leu Lys Thr His Ala Ser Met Ile Ile Phe Glu Pro
50 55 60

Ala Asn Ala Phe Gly Glu Cys Ser Gly Tyr Ile Glu Arg Ala Ser Thr
65 70 75 80

Ser Thr Gly Gly Ala Asn Gln Ala Asp Glu Lys Tyr Phe Lys Cys Asp
85 90 95

Val Cys Gly Gln Leu Phe Asn Asp Arg Leu Ser Leu Ala Arg His Gln
100 105 110

Asn Thr His Thr Gly
115

<210> 1067

<211> 192

<212> PRT

<213> Homo sapiens

<400> 1067

Pro Glu Gln Arg Gly Ser Ser Met Ala His Gly Pro Gly Ala Leu Met
1 5 10 15

Leu Lys Cys Val Val Val Gly Asp Gly Ala Val Gly Lys Thr Cys Leu
20 25 30

Leu	Met	Ser	Tyr	Ala	Asn	Asp	Ala	Phe	Pro	Glu	Ser	Thr	Cys	Pro	Pro
		35					40					45			
Ser	Ser	Thr	Thr	Thr	Gln	Glu	Asp	Tyr	Asp	Arg	Leu	Arg	Pro	Leu	Ser
	50					55					60				
Tyr	Pro	Met	Thr	Asp	Val	Phe	Leu	Ile	Cys	Phe	Ser	Val	Val	Asn	Pro
65					70					75					80
Ala	Ser	Phe	Gln	Asn	Val	Lys	Glu	Glu	Trp	Val	Pro	Glu	Leu	Lys	Glu
				85					90					95	
Tyr	Ala	Pro	Asn	Val	Pro	Phe	Leu	Leu	Ile	Gly	Thr	Gln	Ile	Asp	Leu
			100					105					110		
Arg	Asp	Asp	Pro	Lys	Thr	Leu	Ala	Arg	Leu	Asn	Asp	Met	Lys	Glu	Lys
		115					120					125			
Pro	Ile	Cys	Val	Glu	Gln	Gly	Gln	Lys	Leu	Ala	Lys	Glu	Ile	Gly	Ala
	130					135					140				
Cys	Cys	Tyr	Val	Glu	Cys	Ser	Ala	Leu	Thr	Gln	Lys	Gly	Leu	Lys	Thr
145					150					155					160
Val	Phe	Asp	Glu	Ala	Ile	Ile	Ala	Ile	Leu	Thr	Pro	Lys	Lys	His	Thr
			165						170					175	
Val	Lys	Lys	Arg	Ile	Gly	Ser	Arg	Cys	Ile	Asn	Cys	Cys	Leu	Ile	Thr
			180					185					190		

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<400> 1068
Ser Arg Trp Ala Arg Arg Asp Pro Gln Glu Arg Arg Glu Arg Gly Thr
 1             5             10             15
Arg Val Gln Ser Ser Gly Thr Trp Ile Gly Ala Gly Ala Met Gly Gly
                20             25             30
Glu Gln Glu Glu Glu Arg Phe Asp Gly Met Leu Leu Ala Met Ala Gln
          35             40             45

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1056

Gln	His	Glu	Gly	Gly	Val	Gln	Glu	Leu	Val	Asn	Thr	Phe	Phe	Ser	Phe		
	50					55				60							
Leu	Arg	Arg	Lys	Thr	Asp	Phe	Phe	Ile	Gly	Gly	Glu	Glu	Gly	Met	Ala		
65					70					75					80		
Glu	Lys	Leu	Ile	Thr	Gln	Thr	Phe	Ser	His	His	Asn	Gln	Leu	Ala	Gln		
			85						90					95			
Lys	Thr	Arg	Arg	Glu	Lys	Arg	Ala	Arg	Gln	Glu	Ala	Glu	Arg	Arg	Glu		
			100					105					110				
Lys	Ala	Glu	Arg	Ala	Ala	Arg	Leu	Ala	Lys	Glu	Ala	Lys	Ser	Glu	Thr		
	115						120					125					
Ser	Gly	Pro	Gln	Ile	Lys	Glu	Leu	Thr	Asp	Glu	Glu	Ala	Glu	Arg	Leu		
130						135					140						
Gln	Leu	Glu	Ile	Asp	Gln	Lys	Lys	Asp	Ala	Glu	Asn	His	Glu	Ala	Gln		
145					150					155					160		
Leu	Lys	Asn	Gly	Ser	Leu	Asp	Ser	Pro	Gly	Lys	Gln	Asp	Thr	Glu	Glu		
			165						170					175			
Asp	Glu	Glu	Glu	Asp	Glu	Lys	Asp	Lys	Gly	Lys	Leu	Lys	Pro	Asn	Leu		
			180					185					190				
Gly	Asn	Gly	Ala	Asp	Leu	Pro	Asn	Tyr	Arg	Trp	Thr	Gln	Thr	Leu	Ser		
	195						200					205					
Glu	Leu	Asp	Leu	Ala	Val	Pro	Phe	Cys	Val	Asn	Phe	Arg	Leu	Lys	Gly		
210						215				220							
Lys	Asp	Met	Val	Val	Asp	Ile	Gln	Arg	Arg	His	Leu	Arg	Val	Gly	Leu		
225					230					235					240		
Lys	Gly	Gln	Pro	Ala	Ile	Ile	Asp	Gly	Glu	Leu	Tyr	Asn	Glu	Val	Lys		
			245						250					255			
Val	Glu	Glu	Ser	Ser	Trp	Leu	Ile	Glu	Asp	Gly	Lys	Val	Val	Thr	Val		
			260					265					270				
His	Leu	Glu	Lys	Ile	Asn	Lys	Met	Glu	Trp	Trp	Ser	Arg	Leu	Val	Ser		
	275						280					285					
Ser	Asp	Pro	Glu	Ile	Asn	Thr	Lys	Lys	Ile	Asn	Pro	Glu	Asn	Ser	Lys		
	290					295					300						
Leu	Ser	Asp	Leu	Asp	Ser	Glu	Thr	Arg	Ser	Met	Val	Glu	Lys	Met	Met		
305					310					315					320		

Tyr	Asp	Gln	Arg	Gln	Lys	Ser	Met	Gly	Leu	Pro	Thr	Ser	Asp	Glu	Gln
				325					330					335	
Lys	Lys	Gln	Glu	Ile	Leu	Lys	Lys	Phe	Met	Asp	Gln	His	Pro	Glu	Met
			340					345					350		
Asp	Phe	Ser	Lys	Ala	Lys	Phe	Asn								
		355					360								

Ser Thr Tyr Pro Phe Pro Pro Arg Gly Leu Asn Met Gln Lys Gln Phe
145 150 155 160

1058

Arg Trp Glu Pro Pro Ser Asn Gln Leu Leu Tyr Pro Trp Gly
 165 170

<210> 1070

<211> 445

<212> PRT

<213> Homo sapiens

<400> 1070

Pro Arg Gly Leu Thr Gly Leu Trp Arg Ser Ser Leu Pro Ile Arg Lys
 1 5 10 15

Leu Gln Leu Pro Pro Asp Ala Leu Lys Met Ala Thr Ser Leu Gly Ser
 20 25 30

Asn Thr Tyr Asn Arg Gln Asn Trp Glu Asp Ala Asp Phe Pro Ile Leu
 35 40 45

Cys Gln Thr Cys Leu Gly Glu Asn Pro Tyr Ile Arg Met Thr Lys Glu
 50 55 60

Lys Tyr Gly Lys Glu Cys Lys Ile Cys Ala Arg Pro Phe Thr Val Phe
 65 70 75 80

Arg Trp Cys Pro Gly Val Arg Met Arg Phe Lys Lys Thr Glu Val Cys
 85 90 95

Gln Thr Cys Ser Lys Leu Lys Asn Val Cys Gln Thr Cys Leu Leu Asp
 100 105 110

Leu Glu Tyr Gly Leu Pro Ile Gln Val Arg Asp Ala Gly Leu Ser Phe
 115 120 125

Lys Asp Asp Met Pro Lys Ser Asp Val Asn Lys Glu Tyr Tyr Thr Gln
 130 135 140

Asn Met Glu Arg Glu Ile Ser Asn Ser Asp Gly Thr Arg Pro Val Gly
 145 150 155 160

Met Leu Gly Lys Ala Thr Ser Thr Ser Asp Met Leu Leu Lys Leu Ala
 165 170 175

Arg Thr Thr Pro Tyr Tyr Lys Arg Asn Arg Pro His Ile Cys Ser Phe
 180 185 190

Trp Val Lys Gly Glu Cys Lys Arg Gly Glu Glu Cys Pro Tyr Arg His
 195 200 205

1059

Glu Lys Pro Thr Asp Pro Asp Asp Pro Leu Ala Asp Gln Asn Ile Lys
 210 215 220
 Asp Arg Tyr Tyr Gly Ile Asn Asp Pro Val Ala Asp Lys Leu Leu Lys
 225 230 235 240
 Arg Ala Ser Thr Met Pro Arg Leu Asp Pro Pro Glu Asp Lys Thr Ile
 245 250 255
 Thr Thr Leu Tyr Val Gly Gly Leu Gly Asp Thr Ile Thr Glu Thr Asp
 260 265 270
 Leu Arg Asn His Phe Tyr Gln Phe Gly Glu Ile Arg Thr Ile Thr Val
 275 280 285
 Val Gln Arg Gln Gln Cys Ala Phe Ile Gln Phe Ala Thr Arg Gln Ala
 290 295 300
 Ala Glu Val Ala Ala Glu Lys Ser Phe Asn Lys Leu Ile Val Asn Gly
 305 310 315 320
 Arg Arg Leu Asn Val Lys Trp Gly Arg Ser Gln Ala Ala Arg Gly Lys
 325 330 335
 Glu Lys Glu Lys Asp Gly Thr Thr Asp Ser Gly Ile Lys Leu Glu Pro
 340 345 350
 Val Pro Gly Leu Pro Gly Ala Leu Pro Pro Pro Pro Ala Ala Glu Glu
 355 360 365
 Glu Ala Ser Ala Asn Tyr Phe Asn Leu Pro Pro Ser Gly Pro Pro Ala
 370 375 380
 Val Val Asn Ile Ala Leu Pro Pro Pro Pro Gly Ile Ala Pro Pro Pro
 385 390 395 400
 Pro Pro Gly Phe Gly Pro His Met Phe His Pro Met Gly Pro Pro Pro
 405 410 415
 Pro Phe Met Arg Ala Pro Gly Pro Ile His Tyr Pro Ser Gln Asp Pro
 420 425 430
 Gln Arg Met Gly Ala His Ala Gly Lys His Ser Ser Pro
 435 440 445

<210> 1071

<211> 346

<212> PRT

<213> Homo sapiens

1060

<220>

<221> SITE

<222> (286)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (287)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (291)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (294)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1071

Trp	Ser	Arg	Leu	Cys	Leu	Leu	Lys	Gln	Tyr	Leu	Phe	Thr	Met	Lys	Leu
1				5					10					15	

Gln	Ser	Pro	Glu	Phe	Gln	Ser	Leu	Phe	Thr	Glu	Gly	Leu	Lys	Ser	Leu
			20					25					30		

Thr	Glu	Leu	Phe	Val	Lys	Glu	Asn	His	Glu	Leu	Arg	Ile	Ala	Gly	Gly
		35					40					45			

Ala	Val	Arg	Asp	Leu	Leu	Asn	Gly	Val	Lys	Pro	Gln	Asp	Ile	Asp	Phe
	50					55					60				

Ala	Thr	Thr	Ala	Thr	Pro	Thr	Gln	Met	Lys	Glu	Met	Phe	Gln	Ser	Ala
65					70					75					80

Gly	Ile	Arg	Met	Ile	Asn	Asn	Arg	Gly	Glu	Lys	His	Gly	Thr	Ile	Thr
			85						90					95	

Ala	Arg	Leu	His	Glu	Glu	Asn	Phe	Glu	Ile	Thr	Thr	Leu	Arg	Ile	Asp
		100						105					110		

Val	Thr	Thr	Asp	Gly	Arg	His	Ala	Glu	Val	Glu	Phe	Thr	Thr	Asp	Trp
		115					120					125			

Gln	Lys	Asp	Ala	Glu	Arg	Arg	Asp	Leu	Thr	Ile	Asn	Ser	Met	Phe	Leu
	130					135					140				

Gly	Phe	Asp	Gly	Thr	Leu	Phe	Asp	Tyr	Phe	Asn	Gly	Tyr	Glu	Asp	Leu
145					150					155					160

1061

Lys	Asn	Lys	Lys	Val	Arg	Phe	Val	Gly	His	Ala	Lys	Gln	Arg	Ile	Gln	
				165					170					175		
Glu	Asp	Tyr	Leu	Arg	Ile	Leu	Arg	Tyr	Phe	Arg	Phe	Tyr	Gly	Arg	Ile	
				180					185					190		
Val	Asp	Lys	Pro	Gly	Asp	His	Asp	Pro	Glu	Thr	Leu	Glu	Ala	Ile	Ala	
				195					200					205		
Glu	Asn	Ala	Lys	Gly	Leu	Ala	Gly	Ile	Ser	Gly	Glu	Arg	Ile	Trp	Val	
				210					215					220		
Glu	Leu	Lys	Lys	Ile	Leu	Val	Gly	Asn	His	Val	Asn	His	Leu	Ile	His	
225					230					235					240	
Leu	Ile	Tyr	Asp	Leu	Asp	Val	Ala	Pro	Tyr	Ile	Gly	Leu	Pro	Ala	Asn	
				245					250					255		
Ala	Ser	Leu	Glu	Glu	Phe	Asp	Lys	Val	Ser	Lys	Asn	Val	Asp	Gly	Phe	
				260					265					270		
Ser	Pro	Lys	Pro	Val	Thr	Leu	Leu	Ala	Ser	Leu	Phe	Lys	Xaa	Xaa	Asp	
				275					280					285		
Asp	Val	Xaa	Lys	Leu	Xaa	Leu	Arg	Leu	Lys	Ile	Ala	Lys	Glu	Glu	Lys	
				290					295					300		
Asn	Leu	Gly	Leu	Phe	Ile	Val	Lys	Asn	Arg	Lys	Asp	Leu	Ile	Lys	Ala	
305					310					315					320	
Thr	Asp	Ser	Ser	Asp	Pro	Leu	Lys	Pro	Tyr	Gln	Asp	Phe	Ile	Ile	Asp	
				325					330					335		
Ser	Arg	Glu	Pro	Asp	Ala	His	Ser	Cys	Met							
				340					345							

<210> 1072

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

1062

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1072

Glu	Asp	Ser	Leu	Asn	Leu	Asp	Leu	Thr	Pro	Arg	Met	Leu	Arg	Arg	Leu
1				5					10				15		

Leu	Glu	Arg	Pro	Cys	Thr	Leu	Ala	Leu	Leu	Val	Gly	Ser	Gln	Leu	Ala
			20					25					30		

Val	Met	Met	Tyr	Leu	Ser	Leu	Gly	Gly	Phe	Arg	Ser	Leu	Ser	Ala	Leu
	35						40					45			

Phe	Gly	Arg	Asp	Gln	Gly	Pro	Thr	Phe	Asp	Tyr	Ser	His	Pro	Arg	Asp
	50					55					60				

Val	Tyr	Ser	Asn	Leu	Ser	His	Leu	Pro	Gly	Ala	Pro	Xaa	Gly	Pro	Pro
65					70				75						80

Xaa	Pro	Gln	Gly	Leu	Pro	Tyr	Cys	Pro	Glu	Arg	Ser	Pro	Leu	Leu	Val
			85						90					95	

Gly	Pro	Val	Ser	Val	Ser	Phe	Ser	Pro	Val	Pro	Ser	Leu	Ala	Glu	Ile
			100					105					110		

Val	Glu	Arg	Asn	Pro	Arg	Val	Glu	Pro	Gly	Gly	Arg	Tyr	Arg	Pro	Ala
		115					120					125			

Gly	Cys	Glu	Pro	Arg	Ser	Arg	Thr	Ala	Ile	Ile	Val	Pro	His	Arg	Ala
	130					135					140				

Arg	Glu	His	His	Leu	Arg	Leu	Leu	Leu	Tyr	His	Leu	His	Pro	Phe	Leu
145					150					155				160	

Gln	Arg	Gln	Gln	Leu	Ala	Tyr	Gly	Ile	Tyr	Val	Ile	His	Gln	Ala	Gly
			165					170						175	

Asn	Gly	Thr	Phe	Asn	Arg	Ala	Lys	Leu	Leu	Asn	Val	Gly	Val	Arg	Glu
		180						185					190		

Ala	Leu	Arg	Asp	Glu	Glu	Trp	Asp	Cys	Leu	Phe	Leu	His	Asp	Val	Asp
		195					200					205			

Leu	Leu	Pro	Glu	Asn	Asp	His	Asn	Leu	Tyr	Val	Cys	Asp	Pro	Arg	Gly
	210					215					220				

Pro	Arg	His	Val	Ala	Val	Ala	Met	Asn	Lys	Phe	Gly	Tyr	Ser	Leu	Pro
225					230					235					240

Tyr	Pro	Gln	Tyr	Phe	Gly	Gly	Val	Ser	Ala	Leu	Thr	Pro	Asp	Gln	Tyr
			245						250					255	

1063

Leu Lys Met Asn Gly Phe Pro Asn Glu Tyr Trp Gly Trp Gly Gly Glu
 260 265 270
 Asp Asp Asp Ile Ala Thr Arg Val Arg Leu Ala Gly Met Lys Ile Ser
 275 280 285
 Arg Pro Pro Thr Ser Val Gly His Tyr Lys Met Val Lys His Arg Gly
 290 295 300
 Asp Lys Gly Asn Glu Glu Asn Pro His Arg Phe Asp Leu Leu Val Arg
 305 310 315 320
 Thr Gln Asn Ser Trp Thr Gln Asp Gly Met Asn Ser Leu Thr Tyr Gln
 325 330 335
 Leu Leu Ala Arg Glu Leu Gly Pro Leu Tyr Thr Asn Ile Thr Ala Asp
 340 345 350
 Ile Gly Thr Asp Pro Arg Gly Pro Arg Ala Pro Ser Gly Pro Arg Tyr
 355 360 365
 Pro Pro Gly Ser Ser Gln Ala Phe Arg Gln Glu Met Leu Gln Arg Arg
 370 375 380
 Pro Pro Ala Arg Pro Gly Pro Leu Ser Thr Ala Asn His Thr Ala Leu
 385 390 395 400
 Arg Gly Ser His

<210> 1073

<211> 217

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1073

Asn Lys Glu Gln Leu Met Asp Lys Ser Gly Ile Asp Ser Leu Asp His
 1 5 10 15
 Val Thr Ser Asp Ala Val Glu Leu Ala Asn Arg Ser Asp Asn Ser Ser
 20 25 30
 Asp Ser Ser Leu Phe Lys Thr Gln Cys Ile Pro Tyr Ser Pro Lys Gly

1064

35					40					45						
Glu	Lys	Arg	Asn	Pro	Ile	Arg	Lys	Phe	Val	Arg	Thr	Pro	Glu	Ser	Val	
50					55					60						
His	Ala	Ser	Xaa	Ser	Ser	Ser	Asp	Ser	Ser	Phe	Glu	Pro	Ile	Pro	Leu	
65					70					75					80	
Thr	Ile	Lys	Ala	Ile	Phe	Glu	Arg	Phe	Lys	Asn	Arg	Lys	Lys	Arg	Tyr	
85					90					95						
Lys	Lys	Lys	Lys	Lys	Arg	Arg	Tyr	Gln	Pro	Thr	Gly	Arg	Pro	Arg	Gly	
100					105					110						
Arg	Pro	Glu	Gly	Arg	Arg	Asn	Pro	Ile	Tyr	Ser	Leu	Ile	Asp	Lys	Lys	
115					120					125						
Lys	Gln	Phe	Arg	Ser	Arg	Gly	Ser	Gly	Phe	Pro	Phe	Leu	Glu	Ser	Glu	
130					135					140						
Asn	Glu	Lys	Asn	Ala	Pro	Trp	Arg	Lys	Ile	Leu	Thr	Phe	Glu	Gln	Ala	
145					150					155					160	
Val	Ala	Arg	Gly	Phe	Phe	Asn	Tyr	Ile	Glu	Lys	Leu	Lys	Tyr	Glu	His	
165					170					175						
His	Leu	Lys	Glu	Ser	Leu	Lys	Gln	Met	Asn	Val	Gly	Glu	Asp	Leu	Glu	
180					185					190						
Asn	Glu	Asp	Phe	Asp	Ser	Arg	Arg	Tyr	Lys	Phe	Leu	Asp	Asp	Asp	Gly	
195					200					205						
Ser	Ile	Ser	Pro	Ile	Glu	Glu	Ser	Thr								
210					215											

<210> 1074

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

1065

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1074

Thr	His	Tyr	Arg	Ala	Lys	Leu	Val	Arg	Leu	Pro	Gly	Thr	Gly	Ser	Gly
1				5					10					15	

Asn	Ser	Arg	Val	Asp	Pro	Arg	Val	Arg	Glu	Gln	Pro	Ser	Pro	Ala	Ser
			20					25					30		

Ser	Ala	Pro	Gly	Gln	Leu	Asn	Ser	Cys	Gln	Asp	Val	Leu	Pro	Ala	Glu
		35					40					45			

Pro	Ala	Ala	Val	Pro	Thr	Pro	Thr	Gln	Val	Ser	Leu	Thr	Gln	Val	Ser
	50					55					60				

Pro	Lys	Glu	Pro	Ser	Thr	Val	Ser	Ala	Ser	Ser	Phe	Leu	Trp	Leu	Cys
	65				70					75					80

Pro	Lys	Leu	Trp	Gly	Leu	Trp	Pro	Ser	Ser	Glu	Gly	Gly	Cys	Phe	Leu
			85						90					95	

Asn	His	His	Arg	Arg	His	His	Arg	Cys	Arg	Arg	Gln	Arg	Xaa	Asn	Ser
			100					105					110		

Cys	Asp	Arg	Ala	Val	Val	Ser	Lys	Ala	Xaa	Xaa	Leu	Xaa	Ala	Ala	Xaa
			115				120					125			

Phe	Trp	Gly	Leu	Leu	Leu	Ile	Gln	Ile	Leu	Met	Leu	Arg	Gln	Ala	Ile
	130					135					140				

Phe	Gly	Xaa	Asn	Lys	Asn	Ser	Gln	Glu	Ala	Lys	Asn	Ser	Pro	Ile	Trp
	145				150					155					160

1066

Lys

<210> 1075

<211> 221

<212> PRT

<213> Homo sapiens

<400> 1075

Ser	Ser	Ser	Trp	His	Ala	Arg	Tyr	Thr	Val	Leu	Thr	Tyr	Leu	Gln	Thr
1				5					10					15	
Met	Val	Phe	Tyr	Asn	Leu	Phe	Ile	Phe	Leu	Asn	Asn	Glu	Asp	Ala	Val
			20					25					30		
Lys	Asp	Ile	Arg	Trp	Leu	Val	Ile	Ser	Leu	Leu	Glu	Asp	Glu	Gln	Leu
		35					40					45			
Glu	Val	Arg	Glu	Met	Ala	Ala	Thr	Thr	Leu	Ser	Gly	Leu	Leu	Gln	Cys
	50					55					60				
Asn	Phe	Leu	Thr	Met	Asp	Ser	Pro	Met	Gln	Ile	His	Phe	Glu	Gln	Leu
65					70					75					80
Cys	Lys	Thr	Lys	Leu	Pro	Lys	Lys	Arg	Lys	Arg	Asp	Pro	Gly	Ser	Val
				85					90					95	
Gly	Asp	Thr	Ile	Pro	Ser	Ala	Glu	Leu	Val	Lys	Arg	His	Ala	Gly	Val
			100					105					110		
Leu	Gly	Leu	Gly	Ala	Cys	Val	Leu	Ser	Ser	Pro	Tyr	Asp	Val	Pro	Thr
		115					120					125			
Trp	Met	Pro	Gln	Leu	Leu	Met	Asn	Leu	Ser	Ala	His	Leu	Asn	Asp	Pro
	130					135					140				
Gln	Pro	Ile	Glu	Met	Thr	Val	Lys	Lys	Thr	Leu	Ser	Asn	Phe	Arg	Arg
145					150					155					160
Leu	Thr	Met	Thr	Thr	Gly	Arg	Asn	Ile	Asn	Ser	Asn	Ser	Leu	Met	Thr
				165					170					175	
Asn	Cys	Leu	Phe	Ser	Pro	Ile	Phe	Leu	Cys	His	His	Ala	Ile	Met	His
			180					185					190		
Arg	Lys	Met	Thr	Ser	Pro	His	Phe	Arg	Leu	Phe	Ser	Ser	Lys	Ile	Pro
		195					200					205			

1067

His Pro Gln Val Pro Ser Val Val Ala Leu Cys Lys Phe
 210 215 220

<210> 1076

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1076

Ala Arg Gly Ala Arg Val Arg Ala Cys Ala Ser Leu Gly Ser Trp Arg
 1 5 10 15

Gly Pro Arg Gly Glu Gly Trp Lys Met Ser Met Asp Val Thr Phe Leu
 20 25 30

Gly Thr Gly Ala Ala Tyr Pro Ser Pro Thr Arg Gly Ala Ser Ala Val
 35 40 45

Val Leu Arg Cys Glu Gly Glu Xaa Trp Leu Phe Asp Cys Gly Glu Gly
 50 55 60

Thr Gln Thr Gln Leu Met Lys Ser Gln Leu Lys Ala Gly Arg Ile Thr
 65 70 75 80

Lys Ile Phe Ile Thr His Leu His Gly Asp His Phe Phe Gly Leu Pro
 85 90 95

Gly Leu Leu Cys Thr Ile Ser Leu Gln Ser Gly Ser Met Val Ser Lys
 100 105 110

1068

Gln Pro Ile Glu Ile Tyr Gly Pro Val Gly Phe Gly Thr Leu Ser Gly
 115 120 125

Glu Pro Trp Asn Ser Leu Xaa Arg Glu Leu Val Phe His Tyr Val Val
 130 135 140

His Glu Leu Val Pro Thr Ala Asp Gln Cys Pro Ala Glu Gly Thr Lys
 145 150 155 160

Arg Ile Xaa Ala Cys Xaa
 165

<210> 1077

<211> 239

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1077

Gly Leu Arg Ala Leu Ser Gln His Thr Asp Leu Ser Pro Leu Ser Pro
 1 5 10 15

Lys Thr Pro Ala Pro Ser Met Arg Xaa Lys Met Gly Asn Gly Thr Glu
 20 25 30

Glu Asp Tyr Asn Phe Val Phe Lys Val Val Leu Ile Gly Glu Ser Gly
 35 40 45

Val Gly Lys Thr Asn Leu Leu Ser Arg Phe Thr Arg Asn Glu Phe Ser
 50 55 60

His Asp Ser Arg Thr Thr Ile Gly Val Glu Phe Ser Thr Arg Thr Val
 65 70 75 80

Met Leu Gly Thr Ala Ala Val Lys Ala Gln Ile Trp Asp Thr Ala Gly
 85 90 95

Leu Glu Arg Tyr Arg Ala Ile Thr Ser Ala Tyr Tyr Arg Gly Ala Val
 100 105 110

Gly Ala Leu Leu Val Phe Asp Leu Thr Lys His Gln Thr Tyr Ala Val
 115 120 125

Val Glu Arg Trp Leu Lys Glu Leu Tyr Asp His Ala Glu Ala Thr Ile

1069

130 135 140
 Val Val Met Leu Val Gly Asn Lys Ser Asp Leu Ser Gln Ala Arg Glu
 145 150 155 160
 Val Pro Thr Glu Glu Ala Arg Met Phe Ala Glu Asn Asn Gly Leu Leu
 165 170 175
 Phe Leu Glu Thr Ser Ala Leu Asp Ser Thr Asn Val Glu Leu Ala Phe
 180 185 190
 Glu Thr Val Leu Lys Glu Ile Phe Ala Lys Val Ser Lys Gln Arg Gln
 195 200 205
 Asn Ser Ile Arg Thr Asn Ala Ile Thr Ser Gly Ser Ala Gln Ala Gly
 210 215 220
 Gln Glu Pro Gly Pro Gly Glu Lys Arg Ala Cys Cys Ile Ser Leu
 225 230 235

<210> 1078

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1078

Ile Leu Lys Gly Ser Ser Gly Ser Val Trp Leu Arg Asn Leu Gln Leu
 1 5 10 15
 Gly Leu Phe Gly Thr Ala Leu Gly Leu Val Gly Leu Trp Trp Ala Glu
 20 25 30
 Gly Thr Ala Val Ala Thr Arg Gly Phe Phe Phe Gly Tyr Thr Pro Ala
 35 40 45
 Val Trp Gly Val Val Leu Asn Gln Ala Phe Gly Gly Leu Leu Val Ala
 50 55 60
 Val Val Val Lys Tyr Ala Asp Asn Ile Leu Lys Gly Phe Ala Thr Ser
 65 70 75 80
 Leu Ser Ile Val Leu Ser Thr Val Ala Ser Ile Arg Leu Phe Gly Phe
 85 90 95

1070

His Val Asp Pro Leu Phe Ala Leu Gly Ala Gly Leu Val Ile Gly Ala
 100 105 110
 Val Tyr Leu Tyr Ser Leu Pro Arg Gly Ala Xaa Lys Ala Ile Ala Ser
 115 120 125
 Ala Ser Ala Ser Ala Ser Gly Pro Cys Val His Gln Gln Pro Pro Gly
 130 135 140
 Gln Pro Pro Pro Pro Gln Leu Ser Ser His Arg Gly Asp Leu Ile Thr
 145 150 155 160
 Glu Pro Phe Leu Pro Lys Ser Val Leu Val Lys
 165 170

<210> 1079

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1079

Arg Arg Val Cys His Ser Ser Pro His Leu Ser Ser Pro Arg Ala Ala
 1 5 10 15
 Cys Glu Gln Gln Ala Val Ala Leu Thr Leu Gln Glu Asp Arg Ala Ser
 20 25 30
 Leu Thr Leu Ser Gly Gly Pro Ser Ala Leu Ala Phe Asp Leu Ser Lys
 35 40 45
 Val Pro Gly Pro Glu Ala Ala Pro Arg Leu Xaa Ala Leu Thr Leu Gly
 50 55 60
 Leu Ala Lys Arg Val Trp Ser Leu Glu Arg Arg Leu Ala Ala Ala Glu
 65 70 75 80
 Glu Thr Ala Val Ser Pro Arg Lys Ser Pro Arg Pro Ala Gly Pro Gln
 85 90 95
 Leu Phe Leu Pro Asp Pro Asp Pro Gln Arg Gly Gly Pro Gly Pro Gly
 100 105 110
 Val Arg Arg Arg Cys Pro Gly Glu Ser Leu Ile Asn Pro Gly Phe Lys
 115 120 125

1071

Ser Lys Lys Pro Ala Gly Gly Val Asp Phe Asp Glu Thr
 130 135 140

<210> 1080

<211> 359

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1080

Ala Val Glu Ser Arg Xaa Pro Gly Trp Asn His His Gly Ile Gln Phe
 1 5 10 15

Pro Cys Gly Ser Val Trp Leu Glu His Ala Ile Ala Met Ile Cys Gly
 20 25 30

Asn Val Cys Leu Trp Lys Gly Ala Pro Thr Thr Ser Leu Ile Ser Val
 35 40 45

Ala Val Thr Lys Ile Ile Ala Lys Val Leu Glu Asp Asn Lys Leu Pro
 50 55 60

Gly Ala Ile Cys Ser Leu Thr Cys Gly Gly Ala Asp Ile Gly Thr Ala
 65 70 75 80

Met Ala Lys Asp Glu Arg Val Asn Leu Leu Ser Phe Thr Gly Ser Thr
 85 90 95

Gln Val Gly Lys Gln Val Gly Leu Met Val Gln Glu Arg Phe Gly Arg
 100 105 110

Ser Leu Leu Glu Leu Gly Gly Asn Asn Ala Ile Ile Ala Phe Glu Asp
 115 120 125

Ala Asp Leu Ser Leu Val Val Pro Ser Ala Leu Phe Ala Ala Val Gly
 130 135 140

Thr Ala Gly Gln Arg Cys Thr Thr Ala Arg Arg Leu Phe Ile His Glu
 145 150 155 160

Ser Ile His Asp Glu Val Val Asn Arg Leu Lys Lys Ala Tyr Ala Gln
 165 170 175

Ile Arg Val Gly Asn Pro Trp Asp Pro Asn Val Leu Tyr Gly Pro Leu

[illegible]

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<400> 1081
Ala Val Pro Leu Leu Gly Arg Pro Thr Arg Pro Val Gly Pro Arg Ala
 1             5             10             15
Ala Leu Thr Met Thr Gln Gln Gly Ala Ala Leu Gln Asn Tyr Asn Asn
      20             25             30
Glu Leu Val Lys Cys Ile Glu Glu Leu Cys Gln Lys Arg Glu Glu Leu
 35             40             45

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1073

Cys Arg Gln Ile Gln Glu Glu Glu Asp Glu Lys Gln Arg Leu Gln Asn
 50 55 60
 Glu Val Arg Gln Leu Thr Glu Lys Leu Ala Arg Val Asn Glu Asn Leu
 65 70 75 80
 Ala Arg Lys Ile Ala Ser Arg Asn Glu Phe Asp Arg Thr Ile Ala Glu
 85 90 95
 Thr Glu Ala Ala Tyr Leu Lys Ile Leu Glu Ser Ser Gln Thr Leu Leu
 100 105 110
 Ser Val Leu Lys Arg Glu Ala Gly Asn Leu Thr Lys Ala Thr Ala Pro
 115 120 125
 Asp Gln Lys Ser Ser Gly Gly Arg Asp Ser
 130 135

<210> 1082

<211> 339

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1082

Ser Pro Ile Ser Asn Cys Glu Ile Thr Ile Thr Asp Pro Gly Lys Phe
 1 5 10 15
 Tyr Asn Ser Asn Ser Val Phe Ser Arg Gly Asn Met Ala Lys Val Phe
 20 25 30
 Ser Phe Ile Leu Val Thr Thr Ala Leu Xaa Met Gly Arg Glu Ile Ser
 35 40 45
 Ala Leu Glu Asp Cys Ala Gln Glu Gln Met Arg Leu Arg Ala Gln Val
 50 55 60
 Arg Leu Leu Glu Thr Arg Val Lys Gln Gln Gln Val Lys Ile Lys Gln
 65 70 75 80
 Leu Leu Gln Glu Asn Glu Val Gln Phe Leu Asp Lys Gly Asp Glu Asn
 85 90 95
 Thr Val Val Asp Leu Gly Ser Lys Arg Gln Tyr Ala Asp Cys Ser Glu

1074

100					105					110					
Ile	Phe	Asn	Asp	Gly	Tyr	Lys	Leu	Ser	Gly	Phe	Tyr	Lys	Ile	Lys	Pro
		115					120					125			
Leu	Gln	Ser	Pro	Ala	Glu	Phe	Ser	Val	Tyr	Cys	Asp	Met	Ser	Asp	Gly
		130					135					140			
Gly	Gly	Trp	Thr	Val	Ile	Gln	Arg	Arg	Ser	Asp	Gly	Ser	Glu	Asn	Phe
															160
Asn	Arg	Gly	Trp	Lys	Asp	Tyr	Glu	Asn	Gly	Phe	Gly	Asn	Phe	Val	Gln
				165					170					175	
Lys	His	Gly	Glu	Tyr	Trp	Leu	Gly	Asn	Lys	Asn	Leu	His	Phe	Leu	Thr
			180						185					190	
Thr	Gln	Glu	Asp	Tyr	Thr	Leu	Lys	Ile	Asp	Leu	Ala	Asp	Phe	Glu	Lys
			195						200					205	
Asn	Ser	Arg	Tyr	Ala	Gln	Tyr	Lys	Asn	Phe	Lys	Val	Gly	Asp	Glu	Lys
							215							220	
Asn	Phe	Tyr	Glu	Leu	Asn	Ile	Gly	Glu	Tyr	Ser	Gly	Thr	Ala	Gly	Asp
							230								240
Ser	Leu	Ala	Gly	Asn	Phe	His	Pro	Glu	Val	Gln	Trp	Trp	Ala	Ser	His
				245					250						255
Gln	Arg	Met	Lys	Phe	Ser	Thr	Trp	Asp	Arg	Asp	His	Asp	Asn	Tyr	Glu
			260						265					270	
Gly	Asn	Cys	Ala	Glu	Glu	Asp	Gln	Ser	Gly	Trp	Trp	Phe	Asn	Arg	Cys
			275						280						285
His	Ser	Ala	Asn	Leu	Asn	Gly	Val	Tyr	Tyr	Ser	Gly	Pro	Tyr	Thr	Ala
							295								300
Lys	Thr	Asp	Asn	Gly	Ile	Val	Trp	Tyr	Thr	Trp	His	Gly	Trp	Trp	Tyr
							310								320
Ser	Leu	Lys	Ser	Val	Val	Met	Lys	Ile	Arg	Pro	Asn	Asp	Phe	Ile	Pro
				325					330						335
Asn Val Ile															

<210> 1083

<211> 256

1075

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1083

Lys Ser Leu Asn Gly Pro Ala Asp Phe Glu Lys Arg Val Glu Gly Gly
 1 5 10 15

Gly Arg Pro Arg Ala Pro Leu Val Asn Ala Leu Leu Thr Ala Pro Glu
 20 25 30

Phe Leu Ile Tyr Thr Gly Cys Met Val Cys Val Phe Leu Phe Cys Phe
 35 40 45

Ser Pro Pro Ala Gly Leu Phe Xaa Gly Trp Gly Gly Gly Phe Ala Met
 50 55 60

Ser Asp Asp Asp Ser Arg Ala Ser Thr Ser Ser Ser Ser Ser Ser Ser
 65 70 75 80

Ser Asn Gln Gln Thr Glu Lys Glu Thr Asn Thr Pro Lys Lys Lys Glu
 85 90 95

Ser Lys Val Ser Met Ser Lys Asn Ser Lys Leu Leu Ser Thr Ser Ala
 100 105 110

Lys Arg Ile Gln Lys Glu Leu Ala Asp Ile Thr Leu Asp Pro Pro Pro
 115 120 125

Asn Cys Ser Ala Gly Pro Lys Gly Asp Asn Ile Tyr Glu Trp Arg Ser
 130 135 140

Thr Ile Leu Gly Pro Pro Gly Ser Val Tyr Glu Gly Gly Val Phe Phe
 145 150 155 160

Leu Asp Ile Thr Phe Thr Pro Glu Tyr Pro Phe Lys Pro Pro Lys Val
 165 170 175

Thr Phe Arg Thr Arg Ile Tyr His Cys Asn Ile Asn Ser Gln Gly Val
 180 185 190

Ile Cys Leu Asp Ile Leu Lys Asp Asn Trp Ser Pro Ala Leu Thr Ile
 195 200 205

Ser Lys Val Leu Leu Ser Ile Cys Ser Leu Leu Thr Asp Cys Asn Pro
 210 215 220

1076

Ala Asp Pro Leu Val Gly Ser Ile Ala Thr Gln Tyr Met Thr Asn Arg
 225 230 235 240

Ala Glu His Asp Arg Met Ala Arg Gln Trp Thr Lys Arg Tyr Ala Thr
 245 250 255

<210> 1084

<211> 176

<212> PRT

<213> Homo sapiens

<400> 1084

Glu Lys Cys Val Ser Phe Ser Ala Val Leu Lys Ser Leu Ser Pro Val
 1 5 10 15

Asp Pro Val Glu Pro Ile Ser Asn Ser Glu Pro Ser Met Asn Ser Asp
 20 25 30

Met Gly Lys Val Ser Lys Asn Asp Thr Glu Glu Glu Ser Asn Lys Ser
 35 40 45

Ala Thr Thr Asp Asn Glu Ile Ser Arg Thr Glu Tyr Leu Cys Glu Asn
 50 55 60

Ser Leu Glu Gly Lys Asn Lys Asp Asn Ser Ser Asn Glu Val Phe Pro
 65 70 75 80

Gln Gly Ala Glu Glu Arg Met Cys Tyr Gln Cys Glu Ser Glu Asp Glu
 85 90 95

Pro Gln Ala Asp Gly Ser Gly Leu Thr Thr Ala Pro Pro Thr Pro Arg
 100 105 110

Asp Ser Leu Gln Pro Ser Ile Lys Gln Arg Leu Ala Arg Leu Gln Leu
 115 120 125

Ser Pro Asp Phe Thr Phe Thr Ala Gly Leu Ala Ala Glu Val Ala Ala
 130 135 140

Arg Ser Leu Ser Phe Thr Thr Met Gln Glu Gln Thr Phe Gly Asp Glu
 145 150 155 160

Glu Glu Glu Gln Ile Ile Glu Glu Asn Lys Asn Glu Ile Glu Glu Lys
 165 170 175

1077

<210> 1085

<211> 220

<212> PRT

<213> Homo sapiens

<400> 1085

His	Arg	Lys	Ser	Arg	Pro	Ala	Asn	His	Cys	Val	Tyr	Phe	Tyr	Gly	Asp
1				5					10					15	

Glu	Ile	Ser	Phe	Ser	Cys	His	Glu	Thr	Ser	Arg	Phe	Ser	Ala	Ile	Cys
			20					25					30		

Gln	Gly	Asp	Gly	Thr	Trp	Ser	Pro	Arg	Thr	Pro	Ser	Cys	Gly	Asp	Ile
		35					40					45			

Cys	Asn	Phe	Pro	Pro	Lys	Ile	Ala	His	Gly	His	Tyr	Lys	Gln	Ser	Ser
	50					55					60				

Ser	Tyr	Ser	Phe	Phe	Lys	Glu	Glu	Ile	Ile	Tyr	Glu	Cys	Asp	Lys	Gly
65					70					75					80

Tyr	Ile	Leu	Val	Gly	Gln	Ala	Lys	Leu	Ser	Cys	Ser	Tyr	Ser	His	Trp
				85					90					95	

Ser	Ala	Pro	Ala	Pro	Gln	Cys	Lys	Ala	Leu	Cys	Arg	Lys	Pro	Glu	Leu
			100					105					110		

Val	Asn	Gly	Arg	Leu	Ser	Val	Asp	Lys	Asp	Gln	Tyr	Val	Glu	Pro	Glu
		115						120				125			

Asn	Val	Thr	Ile	Gln	Cys	Asp	Ser	Gly	Tyr	Gly	Val	Val	Gly	Pro	Gln
	130					135					140				

Ser	Ile	Thr	Cys	Ser	Gly	Asn	Arg	Thr	Trp	Tyr	Pro	Glu	Val	Pro	Lys
145					150					155					160

Cys	Glu	Trp	Glu	Thr	Pro	Glu	Gly	Cys	Glu	Gln	Val	Leu	Thr	Gly	Lys
			165						170					175	

Arg	Leu	Met	Gln	Cys	Leu	Pro	Asn	Pro	Glu	Asp	Val	Lys	Met	Ala	Leu
			180					185					190		

Glu	Val	Tyr	Lys	Leu	Ser	Leu	Glu	Ile	Glu	Gln	Leu	Glu	Leu	Gln	Arg
		195					200					205			

Asp	Ser	Ala	Arg	Gln	Ser	Thr	Leu	Asp	Lys	Glu	Leu
210						215					220

1078

<210> 1086

<211> 133

<212> PRT

<213> Homo sapiens

<400> 1086

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Val Lys Pro Ser Gly Gly Glu Gly Asp Val Ala Gln Arg Pro Arg Asp
 1             5             10             15

Arg Leu Ser Ser Arg Leu Leu Gly Ser Pro Ala Trp Arg Arg Arg Leu
          20             25             30

Met Thr Glu Gly Pro Leu Ala Gly Ala Pro Val Cys Ile Phe Glu Gly
      35             40             45

Pro Gly Pro Pro Gly Gly Ala Gly Ser Tyr Ser Trp Gly Leu Gly Phe
      50             55             60

Arg Arg Ala Gly Gly Gly Ala Gly Leu Lys Ala Ala Leu Val Tyr Gly
      65             70             75             80

Val Val Thr Gln Ser His Trp Gln Arg Trp Gly Leu Ala Val Ala Trp
          85             90             95

Gln Tyr Leu Gly Ile Ala Ser Thr Gly Asn Lys Asp Gly His Glu Gln
      100             105             110

Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
      115             120             125

Lys Lys Lys Lys Lys
      130

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<210> 1087

<211> 289

<212> PRT

<213> Homo sapiens

<400> 1087

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Ile Leu Thr Tyr Lys Met Lys Gln Asp Ala Ser Arg Asn Ala Ala Tyr
 1             5             10             15

Thr Val Asp Cys Glu Asp Tyr Val His Val Val Glu Phe Asn Pro Phe
      20             25             30

Glu Asn Gly Asp Ser Gly Asn Leu Ile Ala Tyr Gly Gly Asn Asn Tyr

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1079

35	40	45																	
Val	Val	Ile	Gly	Thr	Cys	Thr	Phe	Gln	Glu	Glu	Glu	Ala	Asp	Val	Glu				
50						55					60								
Gly	Ile	Gln	Tyr	Lys	Thr	Leu	Arg	Thr	Phe	His	His	Gly	Val	Arg	Val				
65					70					75					80				
Asp	Gly	Ile	Ala	Trp	Ser	Pro	Glu	Thr	Arg	Leu	Asp	Ser	Leu	Pro	Pro				
				85					90					95					
Val	Ile	Lys	Phe	Cys	Thr	Ser	Ala	Ala	Asp	Met	Lys	Ile	Arg	Leu	Phe				
			100					105					110						
Thr	Ser	Asp	Leu	Gln	Asp	Lys	Asn	Glu	Tyr	Lys	Val	Leu	Glu	Gly	His				
		115					120					125							
Thr	Asp	Phe	Ile	Asn	Gly	Leu	Val	Phe	Asp	Pro	Lys	Glu	Gly	Gln	Glu				
	130					135					140								
Ile	Ala	Ser	Val	Ser	Asp	Asp	His	Thr	Cys	Arg	Ile	Trp	Asn	Leu	Glu				
145					150					155					160				
Gly	Val	Gln	Thr	Ala	His	Phe	Val	Leu	His	Ser	Pro	Gly	Met	Ser	Val				
				165					170					175					
Cys	Trp	His	Pro	Glu	Glu	Thr	Phe	Lys	Leu	Met	Val	Ala	Glu	Lys	Asn				
			180					185					190						
Gly	Thr	Ile	Arg	Phe	Tyr	Asp	Leu	Leu	Ala	Gln	Gln	Ala	Ile	Leu	Ser				
		195					200					205							
Leu	Glu	Ser	Glu	Gln	Val	Pro	Leu	Met	Ser	Ala	His	Trp	Cys	Leu	Lys				
	210					215					220								
Asn	Thr	Phe	Lys	Val	Gly	Ala	Val	Ala	Gly	Asn	Asp	Trp	Leu	Ile	Trp				
225					230					235				240					
Asp	Ile	Thr	Arg	Ser	Ser	Tyr	Pro	Gln	Asn	Lys	Arg	Pro	Val	His	Met				
				245					250					255					
Asp	Arg	Ala	Cys	Leu	Phe	Arg	Trp	Ser	Thr	Ile	Ser	Glu	Asn	Leu	Phe				
		260						265					270						
Ala	Thr	Thr	Gly	Tyr	Pro	Gly	Lys	Met	Gln	Ala	Ser	Phe	Lys	Phe	Ile				
	275						280					285							
Ile																			

1080

<210> 1088

<211> 836

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (677)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1088

Pro	Thr	Arg	Pro	Asn	Trp	Thr	Gly	Met	Thr	Asn	Leu	Leu	Asp	Ile	Pro
1				5					10					15	

Gly	Leu	Ser	Ser	Leu	Ser	Asp	Thr	Met	Ile	Met	Asp	Ser	Ile	Ala	Ala
				20				25					30		

Phe	Leu	Val	Leu	Pro	Asn	Arg	Leu	Leu	Val	Pro	Leu	Val	Pro	Asp	Leu
		35					40					45			

Gln	Asp	Val	Ala	Gln	Leu	Arg	Ser	Pro	Leu	Pro	Arg	Gly	Ile	Ile	Arg
	50					55					60				

Ile	His	Leu	Leu	Ala	Ala	Arg	Gly	Leu	Ser	Ser	Lys	Asp	Lys	Tyr	Val
65					70					75					80

Lys	Gly	Leu	Ile	Glu	Gly	Lys	Ser	Asp	Pro	Tyr	Ala	Leu	Val	Arg	Leu
				85					90					95	

Gly	Thr	Gln	Thr	Phe	Cys	Ser	Arg	Val	Ile	Asp	Glu	Glu	Leu	Asn	Pro
			100					105					110		

Gln	Trp	Gly	Glu	Thr	Tyr	Glu	Val	Met	Val	His	Glu	Val	Pro	Gly	Gln
		115					120					125			

Glu	Ile	Glu	Val	Glu	Val	Phe	Asp	Lys	Asp	Pro	Asp	Lys	Asp	Asp	Phe
	130					135					140				

Leu	Gly	Arg	Met	Lys	Leu	Asp	Val	Gly	Lys	Val	Leu	Gln	Ala	Ser	Val
145					150					155					160

Leu	Asp	Asp	Trp	Phe	Pro	Leu	Gln	Gly	Gly	Gln	Gly	Gln	Val	His	Leu
			165						170					175	

Arg	Leu	Glu	Trp	Leu	Ser	Leu	Leu	Ser	Asp	Ala	Glu	Lys	Leu	Glu	Gln
		180						185					190		

Val	Leu	Gln	Trp	Asn	Trp	Gly	Val	Ser	Ser	Arg	Pro	Asp	Pro	Pro	Ser
		195					200					205			

Ala	Ala	Ile	Leu	Val	Val	Tyr	Leu	Asp	Arg	Ala	Gln	Asp	Leu	Pro	Leu
210						215					220				
Lys	Lys	Gly	Asn	Lys	Glu	Pro	Asn	Pro	Met	Val	Gln	Leu	Ser	Ile	Gln
225					230					235					240
Asp	Val	Thr	Gln	Glu	Ser	Lys	Ala	Val	Tyr	Ser	Thr	Asn	Cys	Pro	Val
				245					250					255	
Trp	Glu	Glu	Ala	Phe	Arg	Phe	Phe	Leu	Gln	Asp	Pro	Gln	Ser	Gln	Glu
			260					265					270		
Leu	Asp	Val	Gln	Val	Lys	Asp	Asp	Ser	Arg	Ala	Leu	Thr	Leu	Gly	Ala
		275					280					285			
Leu	Thr	Leu	Pro	Leu	Ala	Arg	Leu	Leu	Thr	Ala	Pro	Glu	Leu	Ile	Leu
	290					295					300				
Asp	Gln	Trp	Phe	Gln	Leu	Ser	Ser	Ser	Gly	Pro	Asn	Ser	Arg	Leu	Tyr
305					310					315					320
Met	Lys	Leu	Val	Met	Arg	Ile	Leu	Tyr	Leu	Asp	Ser	Ser	Glu	Ile	Cys
				325					330					335	
Phe	Pro	Thr	Val	Pro	Gly	Cys	Pro	Gly	Ala	Trp	Asp	Val	Asp	Ser	Glu
			340					345					350		
Asn	Pro	Gln	Arg	Gly	Ser	Ser	Val	Asp	Ala	Pro	Pro	Arg	Pro	Cys	His
		355					360					365			
Thr	Thr	Pro	Asp	Ser	Gln	Phe	Gly	Thr	Glu	His	Val	Leu	Arg	Ile	His
	370					375					380				
Val	Leu	Glu	Ala	Gln	Asp	Leu	Ile	Ala	Lys	Asp	Arg	Phe	Leu	Gly	Gly
385					390					395					400
Leu	Val	Lys	Gly	Lys	Ser	Asp	Pro	Tyr	Val	Lys	Leu	Lys	Leu	Ala	Gly
				405					410					415	
Arg	Ser	Phe	Arg	Ser	His	Val	Val	Arg	Glu	Asp	Leu	Asn	Pro	Arg	Trp
			420					425					430		
Asn	Glu	Val	Phe	Glu	Val	Ile	Val	Thr	Ser	Val	Pro	Gly	Gln	Glu	Leu
		435					440					445			
Glu	Val	Glu	Val	Phe	Asp	Lys	Asp	Leu	Asp	Lys	Asp	Asp	Phe	Leu	Gly
	450					455					460				
Arg	Cys	Lys	Val	Arg	Leu	Thr	Thr	Val	Leu	Asn	Ser	Gly	Phe	Leu	Asp
465					470					475					480

1082

Glu Trp Leu Thr Leu Glu Asp Val Pro Ser Gly Arg Leu His Leu Arg
 485 490 495

Leu Glu Arg Leu Thr Pro Arg Pro Thr Ala Ala Glu Leu Glu Glu Val
 500 505 510

Leu Gln Val Asn Ser Leu Ile Gln Thr Gln Lys Ser Ala Glu Leu Ala
 515 520 525

Ala Ala Leu Leu Ser Ile Tyr Met Glu Arg Ala Glu Asp Leu Pro Leu
 530 535 540

Arg Lys Gly Thr Lys His Leu Ser Pro Tyr Ala Thr Leu Thr Val Gly
 545 550 555 560

Asp Ser Ser His Lys Thr Lys Thr Ile Ser Gln Thr Ser Ala Pro Val
 565 570 575

Trp Asp Glu Ser Ala Ser Phe Leu Ile Arg Lys Pro His Thr Glu Ser
 580 585 590

Leu Glu Leu Gln Val Arg Gly Glu Gly Thr Gly Val Leu Gly Ser Leu
 595 600 605

Ser Leu Pro Leu Ser Glu Leu Leu Val Ala Asp Gln Leu Cys Leu Asp
 610 615 620

Arg Trp Phe Thr Leu Ser Ser Gly Gln Gly Gln Val Leu Leu Arg Ala
 625 630 635 640

Gln Leu Gly Ile Leu Val Ser Gln His Ser Gly Val Glu Ala His Ser
 645 650 655

His Ser Tyr Ser His Ser Ser Ser Ser Leu Ser Glu Glu Pro Glu Leu
 660 665 670

Ser Gly Gly Pro Xaa His Ile Thr Ser Ser Ala Pro Glu Leu Arg Gln
 675 680 685

Arg Leu Thr His Val Asp Ser Pro Leu Glu Ala Pro Ala Gly Pro Leu
 690 695 700

Gly Gln Val Lys Leu Thr Leu Trp Tyr Tyr Ser Glu Glu Arg Lys Leu
 705 710 715 720

Val Ser Ile Val His Gly Cys Arg Ser Leu Arg Gln Asn Gly Arg Asp
 725 730 735

Pro Pro Asp Pro Tyr Val Ser Leu Leu Leu Leu Pro Asp Lys Asn Arg
 740 745 750

1083

Gly Thr Lys Arg Arg Thr Ser Gln Lys Lys Arg Thr Leu Ser Pro Glu
 755 760 765

Phe Asn Glu Arg Phe Glu Trp Glu Leu Pro Leu Asp Glu Ala Gln Arg
 770 775 780

Arg Lys Leu Asp Val Ser Val Lys Ser Asn Ser Ser Phe Met Ser Arg
 785 790 795 800

Glu Arg Glu Leu Leu Gly Lys Val Gln Leu Asp Leu Ala Glu Thr Asp
 805 810 815

Leu Ser Gln Gly Val Ala Arg Trp Tyr Asp Leu Met Asp Asn Lys Asp
 820 825 830

Lys Gly Ser Ser
 835

<210> 1089

<211> 409

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (393)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (406)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1089

Arg Ser Ser Val Ala Ser Val His Thr Trp Arg Gln Arg Arg Gln Val
 1 5 10 15

Xaa Val Phe Val Leu Pro Ser Thr Ala Asn Met Lys Arg Pro Lys Leu
 20 25 30

1084

Lys Lys Ala Ser Lys Arg Met Thr Cys His Lys Arg Tyr Lys Ile Gln
 35 40 45
 Lys Lys Val Arg Glu His His Arg Lys Leu Arg Lys Glu Ala Lys Lys
 50 55 60
 Xaa Gly His Lys Lys Pro Arg Lys Asp Pro Gly Val Pro Asn Ser Ala
 65 70 75 80
 Pro Phe Lys Glu Ala Leu Leu Arg Glu Ala Glu Leu Arg Lys Gln Arg
 85 90 95
 Leu Glu Glu Leu Lys Gln Gln Gln Lys Leu Asp Arg Gln Lys Glu Leu
 100 105 110
 Glu Lys Lys Arg Lys Leu Glu Thr Asn Pro Asp Ile Lys Pro Ser Asn
 115 120 125
 Val Glu Pro Met Glu Lys Glu Phe Gly Leu Cys Lys Thr Glu Asn Lys
 130 135 140
 Ala Lys Ser Gly Lys Gln Asn Ser Lys Lys Leu Tyr Cys Gln Glu Leu
 145 150 155 160
 Lys Lys Val Ile Glu Ala Ser Asp Val Val Leu Glu Val Leu Asp Ala
 165 170 175
 Arg Asp Pro Leu Gly Cys Arg Cys Pro Gln Val Glu Glu Ala Ile Val
 180 185 190
 Gln Ser Gly Gln Lys Lys Leu Val Leu Ile Leu Asn Lys Ser Asp Leu
 195 200 205
 Val Pro Lys Glu Asn Leu Glu Ser Trp Leu Asn Tyr Leu Lys Lys Glu
 210 215 220
 Leu Pro Thr Val Val Phe Arg Ala Ser Thr Lys Pro Lys Asp Lys Gly
 225 230 235 240
 Lys Ile Thr Lys Arg Val Lys Ala Lys Lys Asn Ala Ala Pro Phe Arg
 245 250 255
 Ser Glu Val Cys Phe Gly Lys Glu Gly Leu Trp Lys Leu Leu Gly Gly
 260 265 270
 Phe Gln Glu Thr Cys Ser Lys Ala Ile Arg Val Gly Val Ile Gly Phe
 275 280 285
 Pro Asn Val Gly Lys Ser Ser Ile Ile Asn Ser Leu Lys Gln Glu Gln
 290 295 300

1085

Met Cys Asn Val Gly Val Ser Met Gly Leu Thr Arg Ser Met Gln Val
 305 310 315 320

Val Pro Leu Asp Lys Gln Ile Thr Ile Ile Asp Ser Pro Ser Phe Ile
 325 330 335

Val Ser Pro Leu Asn Ser Ser Ser Ala Leu Ala Leu Arg Ser Pro Ala
 340 345 350

Ser Ile Glu Val Val Lys Pro Met Glu Ala Ala Ser Ala Ile Leu Ser
 355 360 365

Gln Ala Asp Ala Arg Gln Val Val Leu Lys Tyr Thr Val Pro Gly Tyr
 370 375 380

Arg Asn Ser Leu Gly Ile Phe Tyr Xaa Ala Cys Ser Glu Lys Arg Tyr
 385 390 395 400

Ala Pro Lys Arg Trp Xaa Pro Lys Cys
 405

<210> 1090

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1090

Pro Lys Asn Trp Xaa Thr Ala Arg Ala Asp His His Ala Ser Met Asn
 1 5 10 15

Trp Val Pro Cys Gly His Ser Tyr Phe Gly Ala Thr Leu Asn Ser Phe
 20 25 30

Ile His Val Leu Met Tyr Ser Tyr Tyr Gly Leu Ser Ser Val Pro Ser
 35 40 45

Met Arg Pro Tyr Leu Trp Trp Xaa Glu Val His His Ser Gly Ala Ala
 50 55 60

1086

Ala Ser Val Cys Ala Asp Asn His Pro Asp Gln Leu Arg Gly His Leu
 65 70 75 80
 Ala Val His Ile Pro Ser Trp Leu Val Val Phe Pro Asp Trp Ile His
 85 90 95
 Asp Phe Pro Asp Cys Ser Leu His Lys Leu Leu His Ser Asp Leu Gln
 100 105 110
 Gln Glu Arg Gly Leu Pro Lys Glu Arg Pro Pro Glu Gly Pro Pro Glu
 115 120 125
 Trp Val His Gly Cys Cys Glu Trp Thr His Gln Gln Leu Phe Thr Pro
 130 135 140
 Gly Lys Gln Cys Glu Ala Lys Glu Ala Ala Glu Gly Leu Lys Ser Lys
 145 150 155 160
 Asn

<210> 1091
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1091
 Ser Lys Asn Ser Ala Arg Glu Glu Met Ala Ala Ser Ser Ser Ser Ser
 1 5 10 15
 Ser Ala Gly Gly Val Ser Gly Ser Ser Val Thr Gly Ser Gly Phe Ser
 20 25 30
 Val Ser Asp Leu Ala Pro Pro Arg Lys Ala Leu Phe Thr Tyr Pro Lys
 35 40 45
 Gly Ala Gly Glu Met Leu Glu Asp Gly Ser Glu Arg Phe Leu Cys Glu
 50 55 60
 Ser Val Phe Ser Tyr Gln Val Ala Ser Thr Leu Lys Gln Val Lys His
 65 70 75 80
 Asp Gln Gln Val Ala Arg Met Glu Lys Leu Ala Gly Leu Val Glu Glu
 85 90 95
 Leu Glu Ala Asp Glu Trp Arg Phe Lys Pro Ile Glu Gln Leu Leu Gly
 100 105 110

1087

Phe Thr Pro Ser Ser Gly
115

<210> 1092

<211> 198

<212> PRT

<213> Homo sapiens

<400> 1092

Ala Pro Phe Leu Ala Ala Gly Val Ser Met Gly Gly Met Leu Leu Leu
1 5 10 15

Asn Tyr Leu Gly Lys Ile Gly Ser Lys Thr Pro Leu Met Ala Ala Ala
20 25 30

Thr Phe Ser Val Gly Trp Asn Thr Phe Ala Cys Ser Glu Ser Leu Glu
35 40 45

Lys Pro Leu Asn Trp Leu Leu Phe Asn Tyr Tyr Leu Thr Thr Cys Leu
50 55 60

Gln Ser Ser Val Asn Lys His Arg His Met Phe Val Lys Gln Val Asp
65 70 75 80

Met Asp His Val Met Lys Ala Lys Ser Ile Arg Glu Phe Asp Lys Arg
85 90 95

Phe Thr Ser Val Met Phe Gly Tyr Gln Thr Ile Asp Asp Tyr Tyr Thr
100 105 110

Asp Ala Ser Pro Ser Pro Arg Leu Lys Ser Val Gly Ile Pro Val Leu
115 120 125

Cys Leu Asn Ser Val Asp Asp Val Phe Ser Pro Ser His Ala Ile Pro
130 135 140

Ile Glu Thr Ala Lys Gln Asn Pro Asn Val Ala Leu Val Leu Thr Ser
145 150 155 160

Tyr Gly Gly His Ile Gly Phe Leu Glu Gly Ile Trp Pro Arg Gln Ser
165 170 175

Thr Tyr Met Asp Arg Val Phe Lys Gln Phe Val Gln Ala Met Val Glu
180 185 190

His Gly His Glu Leu Ser
195

1088

<210> 1093

<211> 36

<212> PRT

<213> Homo sapiens

<400> 1093

Pro Gly Trp Ser Arg Ser Pro Gly Trp Ser Arg Ser Pro Gly Trp Ser
1 5 10 15

Arg Ser Pro Asp Val Val Ile His Pro Pro Arg Pro Pro Lys Met Leu
20 25 30

Gly Leu Gln Val
35

<210> 1094

<211> 615

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

1089

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1094

Tyr	Xaa	Gln	Leu	Val	Leu	Leu	Gln	Val	Pro	Val	Arg	Ile	Pro	Gly	Ser	1	5	10	15
Thr	His	Ala	Ser	Xaa	Asp	Ala	Trp	Val	Ala	Arg	Gln	Leu	Ala	Lys	Pro	20	25	30	
Asp	Asn	Thr	Leu	Phe	Val	Asn	Arg	Thr	Leu	Phe	Asp	Gln	Val	Leu	Glu	35	40	45	
Phe	Leu	Cys	Ser	Pro	Asp	Asp	Asp	Ser	Arg	His	Ser	Glu	Arg	Gln	Gln	50	55	60	
Val	Leu	Leu	Glu	Leu	Leu	Gln	Ala	Gly	Gly	Ile	Val	Gln	Phe	Glu	Glu	65	70	75	80
Ser	Arg	Leu	Ile	Arg	Met	Ala	Glu	Lys	Ala	Glu	Phe	Tyr	Gln	Ile	Cys	85	90	95	
Glu	Phe	Met	Tyr	Glu	Arg	Glu	His	Gln	Tyr	Asp	Lys	Ile	Ile	Asp	Cys	100	105	110	
Xaa	Leu	Arg	Asp	Pro	Leu	Arg	Glu	Glu	Glu	Val	Phe	Asn	Tyr	Ile	His	115	120	125	
Asn	Ile	Leu	Xaa	Ile	Pro	Gly	His	Ser	Ala	Glu	Glu	Lys	Gln	Ser	Val	130	135	140	
Trp	Gln	Lys	Ala	Met	Asp	His	Ile	Glu	Glu	Xaa	Xaa	Xaa	Leu	Lys	Pro	145	150	155	160
Cys	Lys	Ala	Ala	Glu	Leu	Val	Ala	Thr	His	Phe	Ser	Gly	His	Ile	Glu	165	170	175	
Thr	Val	Ile	Lys	Lys	Leu	Gln	Asn	Gln	Val	Leu	Leu	Phe	Lys	Phe	Leu	180	185	190	
Arg	Ser	Leu	Leu	Asp	Pro	Arg	Glu	Gly	Ile	His	Val	Asn	Gln	Glu	Leu	195	200	205	
Leu	Gln	Ile	Ser	Pro	Cys	Ile	Thr	Glu	Gln	Phe	Ile	Glu	Leu	Leu	Cys	210	215	220	
Gln	Phe	Asn	Pro	Thr	Gln	Val	Ile	Glu	Thr	Leu	Gln	Val	Leu	Glu	Cys				

1090

225		230		235		240									
Tyr	Arg	Leu	Glu	Glu	Thr	Ile	Gln	Ile	Thr	Gln	Lys	Tyr	Gln	Leu	His
				245					250					255	
Glu	Val	Thr	Ala	Tyr	Leu	Leu	Glu	Lys	Lys	Gly	Asp	Ile	His	Gly	Ala
			260					265					270		
Phe	Leu	Ile	Met	Leu	Glu	Arg	Leu	Gln	Ser	Lys	Leu	Gln	Glu	Val	Thr
			275				280					285			
His	Gln	Gly	Glu	Asn	Thr	Lys	Glu	Asp	Pro	Ser	Leu	Lys	Asp	Val	Glu
	290					295					300				
Asp	Thr	Met	Val	Glu	Thr	Ile	Ala	Leu	Cys	Gln	Arg	Asn	Ser	His	Asn
305					310					315					320
Leu	Asn	Gln	Gln	Gln	Arg	Glu	Ala	Leu	Trp	Phe	Pro	Leu	Leu	Glu	Ala
				325					330					335	
Met	Met	Ala	Pro	Gln	Lys	Leu	Ser	Ser	Ser	Ala	Ile	Pro	His	Leu	His
			340					345					350		
Ser	Glu	Ala	Leu	Lys	Ser	Leu	Thr	Met	Gln	Val	Leu	Asn	Ser	Met	Ala
		355					360					365			
Ala	Phe	Ile	Ala	Leu	Pro	Ser	Ile	Leu	Gln	Arg	Ile	Leu	Gln	Asp	Pro
		370				375					380				
Val	Tyr	Gly	Lys	Gly	Lys	Leu	Gly	Glu	Ile	Gln	Gly	Leu	Ile	Leu	Gly
385					390					395					400
Met	Leu	Asp	Thr	Phe	Asn	Tyr	Glu	Gln	Thr	Leu	Leu	Glu	Thr	Thr	Thr
				405					410					415	
Ser	Leu	Leu	Asn	Gln	Asp	Leu	His	Trp	Ser	Leu	Cys	Asn	Leu	Arg	Ala
			420					425					430		
Ser	Val	Thr	Arg	Gly	Leu	Asn	Pro	Lys	Gln	Asp	Tyr	Cys	Ser	Ile	Cys
		435					440					445			
Leu	Gln	Gln	Tyr	Lys	Arg	Arg	Gln	Glu	Met	Ala	Asp	Glu	Ile	Ile	Val
		450				455					460				
Phe	Ser	Cys	Gly	His	Leu	Tyr	His	Ser	Phe	Cys	Leu	Gln	Asn	Lys	Glu
465					470					475					480
Cys	Thr	Val	Glu	Phe	Glu	Gly	Gln	Thr	Arg	Trp	Thr	Cys	Tyr	Lys	Cys
				485					490					495	
Ser	Ser	Ser	Asn	Lys	Val	Gly	Lys	Leu	Ser	Glu	Asn	Ser	Ser	Glu	Ile

1091

500							505					510			
Lys	Lys	Gly	Arg	Ile	Thr	Pro	Ser	Gln	Val	Lys	Met	Ser	Pro	Ser	Tyr
515							520			525					
His	Gln	Ser	Lys	Gly	Asp	Pro	Thr	Ala	Lys	Lys	Gly	Thr	Ser	Glu	Pro
530							535			540					
Val	Leu	Asp	Pro	Gln	Gln	Ile	Gln	Ala	Phe	Asp	Gln	Leu	Cys	Arg	Leu
545										555					
Tyr	Arg	Gly	Ser	Ser	Arg	Leu	Ala	Leu	Leu	Thr	Glu	Leu	Ser	Gln	Asn
				565							570				
Arg	Ser	Ser	Glu	Ser	Tyr	Arg	Pro	Phe	Ser	Gly	Ser	Gln	Ser	Ala	Pro
			580						585			590			
Ala	Phe	Asn	Ser	Ile	Phe	Gln	Asn	Glu	Asn	Phe	Gln	Leu	Gln	Leu	Ile
595							600			605					
Pro	Pro	Pro	Val	Thr	Glu	Asp									
610							615								

<210> 1095

<211> 264

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1095

Trp Xaa Ser Thr Thr Ile Trp Lys Ala Gly Pro Pro Ala Gly Thr Gly
1 5 10 15

Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Xaa Thr Arg Gly Phe Trp
20 25 30

Phe Cys Ser Ser Val Trp Val Ser Ser Arg Leu Leu Lys Met Asn Arg
35 40 45

Leu Phe Gly Lys Ala Lys Pro Lys Ala Pro Pro Pro Ser Leu Thr Asp

1092

50	55	60
Cys Ile Gly Thr Val Asp Ser Arg Ala Glu Ser Ile Asp Lys Lys Ile		
65	70	75 80
Ser Arg Leu Asp Ala Glu Leu Val Lys Tyr Lys Asp Gln Ile Lys Lys		
	85	90 95
Met Arg Glu Gly Pro Ala Lys Asn Met Val Lys Gln Lys Ala Leu Arg		
	100	105 110
Val Leu Lys Gln Lys Arg Met Tyr Glu Gln Gln Arg Asp Asn Leu Ala		
	115	120 125
Gln Gln Ser Phe Asn Met Glu Gln Ala Asn Tyr Thr Ile Gln Ser Leu		
	130	135 140
Lys Asp Thr Lys Thr Thr Val Asp Ala Met Lys Leu Gly Val Lys Glu		
145	150	155 160
Met Lys Lys Ala Tyr Lys Gln Val Lys Ile Asp Gln Ile Glu Asp Leu		
	165	170 175
Gln Asp Gln Leu Glu Asp Met Met Glu Asp Ala Asn Glu Ile Gln Glu		
	180	185 190
Ala Leu Ser Arg Ser Tyr Gly Thr Pro Glu Leu Asp Glu Asp Asp Leu		
	195	200 205
Glu Ala Glu Leu Asp Ala Leu Gly Asp Glu Leu Leu Ala Asp Glu Asp		
	210	215 220
Ser Ser Tyr Leu Asp Glu Ala Ala Ser Ala Pro Ala Ile Pro Glu Gly		
225	230	235 240
Val Pro Thr Asp Thr Lys Asn Lys Asp Gly Val Leu Val Asp Glu Phe		
	245	250 255
Gly Leu Pro Gln Ile Pro Ala Ser		
	260	

<210> 1096

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1096

Ser Cys Cys Phe Leu Lys Arg Leu Gln Ala Ser Phe Pro Arg Thr Ala
1 5 10 15

1093

Val Ser Phe Glu Pro Leu Ala Gly Asp Met Pro Arg Gly Arg Lys Ser
 20 25 30

Arg Arg Arg Arg Asn Ala Arg Ala Ala Glu Glu Asn Arg Asn Asn Arg
 35 40 45

Lys Ile Gln Ala Ser Glu Ala Ser Glu Thr Pro Met Ala Ala Ser Val
 50 55 60

Val Ala Ser Thr Pro Glu Asp Asp Leu Ser Gly Pro Glu Glu Asp Pro
 65 70 75 80

Ser Thr Pro Glu Glu Ala Ser Thr Thr Pro Glu Glu Ala Ser Ser Thr
 85 90 95

Ala Gln Ala Gln Lys Pro Ser Val Pro Arg Ser Asn Phe Gln Gly Thr
 100 105 110

Lys Lys Ser Leu Leu Met Ser Ile Leu Ala Leu Ile Phe Ile Met Gly
 115 120 125

Asn Ser Ala Lys Glu Ala Leu Val Trp Lys Val Leu Gly Lys Leu Gly
 130 135 140

Met Gln Pro Gly Arg Gln His Ser Ile Phe Gly Asp Pro Lys Lys Ile
 145 150 155 160

Val Thr Glu Glu Phe Val Arg Arg Gly Tyr Leu Ile Tyr Lys Pro Val
 165 170 175

Pro Arg Ser Ser Pro Val Glu Tyr Glu Phe Phe Trp Gly Pro Arg Ala
 180 185 190

His Val Glu Ser Ser Lys Leu Lys Val Met His Phe Val Ala Arg Val
 195 200 205

Arg Asn Arg Cys Ser Lys Asp Trp Pro Cys Asn Tyr Asp Trp Asp Ser
 210 215 220

Asp Asp Asp Ala Glu Val Glu Ala Ile Leu Asn Ser Gly Ala Arg Gly
 225 230 235 240

Tyr Ser Ala Pro

<210> 1097

<211> 132

<212> PRT

1094

<213> Homo sapiens

<400> 1097

Ala Thr Met Val Arg Met Asn Val Leu Ala Asp Ala Leu Lys Ser Ile
1 5 10 15

Asn Asn Ala Glu Lys Arg Gly Lys Arg Gln Val Leu Ile Arg Pro Cys
20 25 30

Ser Lys Val Ile Val Arg Phe Leu Thr Val Met Met Lys His Gly Tyr
35 40 45

Ile Gly Glu Phe Glu Ile Ile Asp Asp His Arg Ala Gly Lys Ile Val
50 55 60

Val Asn Leu Thr Gly Arg Leu Asn Lys Cys Gly Val Ile Ser Pro Arg
65 70 75 80

Phe Asp Val Gln Leu Lys Asp Leu Glu Lys Trp Gln Asn Asn Leu Leu
85 90 95

Pro Ser Arg Gln Phe Gly Phe Ile Val Leu Thr Thr Ser Ala Gly Ile
100 105 110

Met Asp His Glu Glu Ala Arg Arg Lys His Thr Gly Gly Lys Ile Leu
115 120 125

Gly Phe Phe Phe
130

<210> 1098

<211> 371

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1098

Ala Arg His Thr Pro Ala Gln Arg His Asp His Pro Gln Glu Gly Asn
1 5 10 15

1095

Ile	Pro	Val	Cys	Val	Gln	Leu	Ala	Val	Cys	Ala	Leu	Pro	Leu	Pro	Val	20	25	30	
Val	Pro	Gly	Pro	Glu	His	Cys	Gly	Pro	Gln	Arg	Xaa	Leu	Gln	Pro	Leu	35	40	45	
Val	Tyr	Pro	Leu	Ala	Gln	Val	Ile	Ile	Gly	Cys	Ile	Lys	Leu	Ile	Pro	50	55	60	
Thr	Ala	Arg	Phe	Tyr	Pro	Leu	Arg	Met	His	Cys	Ile	Arg	Ala	Leu	Thr	65	70	75	80
Leu	Leu	Ser	Gly	Ser	Ser	Gly	Ala	Phe	Ile	Pro	Val	Leu	Pro	Phe	Ile	85	90	95	
Leu	Glu	Met	Phe	Gln	Gln	Val	Asp	Phe	Asn	Arg	Lys	Pro	Gly	Arg	Met	100	105	110	
Ser	Ser	Lys	Pro	Ile	Asn	Phe	Ser	Val	Ile	Leu	Lys	Leu	Ser	Asn	Val	115	120	125	
Asn	Leu	Gln	Glu	Lys	Ala	Tyr	Arg	Asp	Gly	Leu	Val	Glu	Gln	Leu	Tyr	130	135	140	
Asp	Leu	Thr	Leu	Glu	Tyr	Leu	His	Ser	Gln	Ala	His	Cys	Ile	Gly	Phe	145	150	155	160
Pro	Glu	Leu	Val	Leu	Pro	Val	Val	Leu	Gln	Leu	Lys	Ser	Phe	Leu	Arg	165	170	175	
Glu	Cys	Lys	Val	Ala	Asn	Tyr	Cys	Arg	Xaa	Val	Gln	Gln	Leu	Leu	Gly	180	185	190	
Lys	Val	Gln	Glu	Asn	Ser	Ala	Tyr	Ile	Cys	Ser	Arg	Arg	Gln	Arg	Val	195	200	205	
Ser	Phe	Gly	Val	Ser	Glu	Gln	Gln	Ala	Val	Glu	Ala	Trp	Glu	Lys	Leu	210	215	220	
Thr	Arg	Glu	Glu	Gly	Thr	Pro	Leu	Thr	Leu	Tyr	Tyr	Ser	His	Trp	Arg	225	230	235	240
Lys	Leu	Arg	Asp	Arg	Glu	Ile	Gln	Leu	Glu	Ile	Ser	Gly	Lys	Glu	Arg	245	250	255	
Leu	Glu	Asp	Leu	Asn	Phe	Pro	Glu	Ile	Lys	Arg	Arg	Lys	Met	Ala	Asp	260	265	270	
Arg	Lys	Asp	Glu	Asp	Arg	Lys	Gln	Phe	Lys	Asp	Leu	Phe	Asp	Leu	Asn	275	280	285	

1096

Ser Ser Glu Glu Asp Asp Thr Glu Gly Phe Ser Glu Arg Gly Ile Leu
 290 295 300
 Arg Pro Leu Ser Thr Arg His Gly Val Glu Asp Asp Glu Glu Asp Glu
 305 310 315 320
 Glu Glu Gly Glu Glu Asp Ser Ser Asn Ser Glu Gly Glu Trp Ser Trp
 325 330 335
 Asp Gly Asp Pro Asp Ala Glu Ala Gly Leu Ala Pro Gly Glu Leu Gln
 340 345 350
 Gln Leu Ala Gln Gly Pro Glu Asp Glu Leu Glu Asp Leu Gln Leu Ser
 355 360 365
 Glu Asp Asp
 370

<210> 1099
 <211> 321
 <212> PRT
 <213> Homo sapiens

<400> 1099
 Glu Arg Thr Leu Gly Gln Pro Gly Phe Leu Gly Cys Pro Arg Gln Pro
 1 5 10 15
 His Thr Ala Met His Tyr Pro Thr Ala Leu Leu Phe Leu Ile Leu Ala
 20 25 30
 Asn Gly Ala Gln Ala Phe Arg Ile Cys Ala Phe Asn Ala Gln Arg Leu
 35 40 45
 Thr Leu Ala Lys Val Ala Arg Glu Gln Val Met Asp Thr Leu Val Arg
 50 55 60
 Ile Leu Ala Arg Cys Asp Ile Met Val Leu Gln Glu Val Val Asp Ser
 65 70 75 80
 Ser Gly Ser Ala Ile Pro Leu Leu Leu Arg Glu Leu Asn Arg Phe Asp
 85 90 95
 Gly Ser Gly Pro Tyr Ser Thr Leu Ser Ser Pro Gln Leu Gly Arg Ser
 100 105 110
 Thr Tyr Met Glu Thr Tyr Val Tyr Phe Tyr Arg Ser His Lys Thr Gln
 115 120 125
 Val Leu Ser Ser Tyr Val Tyr Asn Asp Glu Asp Asp Val Phe Ala Arg

1097

130	135	140
Glu Pro Phe Val Ala Gln Phe Ser Leu Pro Ser Asn Val Leu Pro Ser		
145	150	155 160
Leu Val Leu Val Pro Leu His Thr Thr Pro Lys Ala Val Glu Lys Glu		
	165	170 175
Leu Asn Ala Leu Tyr Asp Val Phe Leu Glu Val Ser Gln His Trp Gln		
	180	185 190
Ser Lys Asp Val Ile Leu Leu Gly Asp Phe Asn Ala Asp Cys Ala Ser		
	195	200 205
Leu Thr Lys Lys Arg Leu Asp Lys Leu Glu Leu Arg Thr Glu Pro Gly		
	210	215 220
Phe His Trp Val Ile Ala Asp Gly Glu Asp Thr Thr Val Arg Ala Ser		
	225	230 235 240
Thr His Cys Thr Tyr Asp Arg Val Val Leu His Gly Glu Arg Cys Arg		
	245	250 255
Ser Leu Leu His Thr Ala Ala Ala Phe Asp Phe Pro Thr Ser Phe Gln		
	260	265 270
Leu Thr Glu Glu Glu Ala Leu Asn Ile Ser Asp His Tyr Pro Val Glu		
	275	280 285
Val Glu Leu Lys Leu Ser Gln Ala His Ser Val Gln Pro Leu Ser Leu		
	290	295 300
Thr Val Leu Leu Leu Leu Ser Leu Leu Ser Pro Gln Leu Cys Pro Ala		
	305	310 315 320
Ala		

<210> 1100

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1100

Leu Leu Leu Cys Val Phe Tyr Ile Ala Cys Phe Cys Lys Asn Met Leu
1 5 10 15

Gly Asp Glu Arg Leu Val Leu Glu Arg Lys Cys Ser Ser Val Gln Arg
20 25 30

1098

Met His Phe Leu Pro Leu Ile Leu Glu Lys Thr Phe Thr Val Ile Tyr
 35 40 45

Met Val Phe Cys Lys Arg Thr Ile Asn Arg Thr Phe
 50 55 60

<210> 1101

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1101

Phe Gly Thr Ser Tyr Ile Gly Gly Leu Leu Ser Ala Phe Tyr Leu Thr
 1 5 10 15

Gly Glu Glu Val Phe Arg Ile Lys Ala Ile Arg Leu Gly Glu Lys Leu
 20 25 30

Leu Pro Ala Phe Asn Thr Pro Thr Gly Ile Pro Lys Gly Val Val Ser
 35 40 45

Phe Lys Ser Gly Asn Trp Gly Trp Ala Thr Ala Gly Ser Ser Ser Ile
 50 55 60

Leu Ala Glu Phe Gly Ser Leu His Leu Glu Phe Leu His Leu Thr Glu
 65 70 75 80

Leu Ser Gly Asn Gln Val Phe Ala Glu Lys Val Arg Asn Ile Arg Lys
 85 90 95

Val Leu Arg Lys Ile Glu Lys Pro Phe Gly Leu Tyr Pro Asn Phe Leu
 100 105 110

Ser Pro Val Ser Gly Asn Trp Val Gln His His Val Ser Val Gly Gly
 115 120 125

Leu Gly Asp Ser Phe Tyr Glu Tyr Leu Ile Lys Ser Trp Leu Met Ser
 130 135 140

1099

Gly Lys Thr Asp Met Glu Ala Lys Asn Met Tyr Tyr Glu Ala Leu Glu
 145 150 155 160
 Ala Xaa Arg Asp Leu Leu Ala Glu Cys Xaa Ser Arg Gly Ala Asp Leu
 165 170 175
 His Cys Arg Val Ala Arg Gly Asp Ser Gly Pro Gln Asp Gly Ala Pro
 180 185 190
 Gly Leu Phe Leu Arg Gly His Asp Arg Pro Trp Pro Glu Asp Ala Lys
 195 200 205
 Glu Glu Lys Arg Ala His Tyr Arg Glu Leu Ala Ala Gln Ile Thr Lys
 210 215 220
 Thr Cys His Glu Ser Tyr Ala Arg Ser Asp Thr Lys Leu Gly Pro Glu
 225 230 235 240
 Ala Ser Gly Leu Thr Pro Ala Glu Arg Pro Trp Pro Pro Ser
 245 250

<210> 1102
 <211> 233
 <212> PRT
 <213> Homo sapiens

<400> 1102
 Gly Pro Gly Trp Tyr Pro Ala Pro Leu Arg Leu Phe His Ser Asp Pro
 1 5 10 15
 Trp Gly His Ala Gln Pro Gly Ala Lys Arg His Arg Ile Pro Glu Pro
 20 25 30
 Glu Ala Ala Val Leu Phe Arg Gln Met Ala Thr Ala Leu Ala His Cys
 35 40 45
 His Gln His Gly Leu Val Leu Arg Asp Leu Lys Leu Cys Arg Phe Val
 50 55 60
 Phe Ala Asp Arg Glu Arg Lys Lys Leu Val Leu Glu Asn Leu Glu Asp
 65 70 75 80
 Ser Cys Val Leu Thr Gly Pro Asp Asp Ser Leu Trp Asp Lys His Ala
 85 90 95
 Cys Pro Ala Tyr Val Gly Pro Glu Ile Leu Ser Ser Arg Ala Ser Tyr
 100 105 110

1100

Ser Gly Lys Ala Ala Asp Val Trp Ser Leu Gly Val Ala Leu Phe Thr
 115 120 125
 Met Leu Ala Gly His Tyr Pro Phe Gln Asp Ser Glu Pro Val Leu Leu
 130 135 140
 Phe Gly Lys Ile Arg Arg Gly Ala Tyr Ala Leu Pro Ala Gly Leu Ser
 145 150 155 160
 Ala Pro Ala Arg Cys Leu Val Arg Cys Leu Leu Arg Arg Glu Pro Ala
 165 170 175
 Glu Arg Leu Thr Ala Thr Gly Ile Leu Leu His Pro Trp Leu Arg Gln
 180 185 190
 Asp Pro Met Pro Leu Ala Pro Thr Arg Ser His Leu Trp Glu Ala Ala
 195 200 205
 Gln Val Val Pro Asp Gly Leu Gly Leu Asp Glu Ala Arg Glu Glu Glu
 210 215 220
 Gly Asp Arg Glu Val Val Leu Tyr Gly
 225 230

<210> 1103

<211> 330

<212> PRT

<213> Homo sapiens

<400> 1103

Cys Gln Leu Arg Ser Ala Ala Gly Val Pro Ser Ser Val Ser Val Ser
 1 5 10 15
 Pro Arg Asp Pro Ile Ala Met Glu Leu Ser Asp Ala Asn Leu Gln Thr
 20 25 30
 Leu Thr Glu Tyr Leu Lys Lys Thr Leu Asp Pro Asp Pro Ala Ile Arg
 35 40 45
 Arg Pro Ala Glu Lys Phe Leu Glu Ser Val Glu Gly Asn Gln Asn Tyr
 50 55 60
 Pro Leu Leu Leu Leu Thr Leu Leu Glu Lys Ser Gln Asp Asn Val Ile
 65 70 75 80
 Lys Val Cys Ala Ser Val Thr Phe Lys Asn Tyr Ile Lys Arg Asn Trp
 85 90 95
 Arg Ile Val Glu Asp Glu Pro Asn Lys Ile Cys Glu Ala Asp Arg Val

1101

100					105					110					
Ala	Ile	Lys	Ala	Asn	Ile	Val	His	Leu	Met	Leu	Ser	Ser	Pro	Glu	Gln
		115					120					125			
Ile	Gln	Lys	Gln	Leu	Ser	Asp	Ala	Ile	Ser	Ile	Ile	Gly	Arg	Glu	Asp
	130					135					140				
Phe	Pro	Gln	Lys	Trp	Pro	Asp	Leu	Leu	Thr	Glu	Met	Val	Asn	Arg	Phe
145					150					155				160	
Gln	Ser	Gly	Asp	Phe	His	Val	Ile	Asn	Gly	Val	Leu	Arg	Thr	Ala	His
			165						170					175	
Ser	Leu	Phe	Lys	Arg	Tyr	Arg	His	Glu	Phe	Lys	Ser	Asn	Glu	Leu	Trp
		180						185					190		
Thr	Glu	Ile	Lys	Leu	Val	Leu	Asp	Ala	Phe	Ala	Leu	Pro	Leu	Thr	Asn
	195						200					205			
Leu	Phe	Lys	Ala	Thr	Ile	Glu	Leu	Cys	Ser	Thr	His	Ala	Asn	Asp	Ala
	210					215					220				
Ser	Ala	Leu	Arg	Ile	Leu	Phe	Ser	Ser	Leu	Ile	Leu	Ile	Ser	Lys	Leu
225					230					235					240
Phe	Tyr	Ser	Leu	Asn	Phe	Gln	Asp	Leu	Pro	Glu	Phe	Phe	Glu	Asp	Asn
			245					250						255	
Met	Glu	Thr	Trp	Met	Asn	Asn	Phe	His	Thr	Leu	Leu	Thr	Leu	Asp	Asn
		260					265						270		
Lys	Leu	Leu	Gln	Thr	Asp	Asp	Glu	Glu	Glu	Ala	Gly	Leu	Leu	Glu	Leu
	275						280					285			
Leu	Lys	Ser	Gln	Ile	Cys	Asp	Asn	Ala	Ala	Leu	Tyr	Ala	Gln	Lys	Tyr
	290					295					300				
Asp	Glu	Glu	Phe	Gln	Arg	Tyr	Leu	Pro	Arg	Phe	Val	Thr	Ala	Ile	Trp
305					310					315					320
Glu	Phe	Thr	Ser	Tyr	Asn	Gly	Ser	Arg	Gly						
			325						330						

<210> 1104

<211> 180

<212> PRT

<213> Homo sapiens

1102

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (150)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (167)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (175)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (180)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1104
 Gly Thr Ser Pro Gly Arg Gly Gly Xaa Gly Val Gly Leu Arg Gly Leu
 1 5 10 15
 Ser Ser Leu Gln Ala Pro Gln Pro Ser Arg Val Pro Trp Pro Met Ala
 20 25 30
 Ala Tyr Ser Tyr Arg Pro Gly Pro Gly Ala Gly Pro Gly Pro Ala Ala
 35 40 45
 Gly Ala Ala Leu Pro Asp Gln Ser Phe Leu Trp Asn Val Phe Gln Arg
 50 55 60
 Val Asp Lys Asp Arg Ser Gly Val Ile Ser Asp Thr Glu Leu Gln Gln
 65 70 75 80

1103

Ala Leu Ser Asn Gly Thr Trp Thr Pro Phe Asn Pro Val Thr Val Arg
 85 90 95

Ser Ile Ile Ser Met Phe Asp Arg Glu Asn Lys Ala Gly Val Asn Phe
 100 105 110

Ser Glu Phe Thr Gly Val Trp Lys Tyr Ile Thr Asp Trp Gln Asn Val
 115 120 125

Phe Arg Thr Tyr Asp Arg Asp Asn Ser Gly Met Ile Asp Lys Asn Glu
 130 135 140

Leu Lys Gln Ala Leu Xaa Val Ser Ala Thr Gly Ser Leu Thr Ser Ser
 145 150 155 160

Thr Thr Ser Ser Phe Glu Xaa Leu Thr Gly Xaa Gly Arg Gly Xaa Ser
 165 170 175

Xaa Ser Thr Xaa
 180

<210> 1105

<211> 241

<212> PRT

<213> Homo sapiens

<400> 1105

Thr Thr Arg Phe Pro Ser Gly Gln Pro Leu Lys Pro Arg Pro Thr Leu
 1 5 10 15

Thr Ala Ala Gly Pro Arg Pro Gly Leu Leu Cys Phe Thr Ile Tyr Ile
 20 25 30

Met Asn Pro Ser Met Lys Gln Lys Gln Glu Glu Ile Lys Glu Asn Ile
 35 40 45

Lys Asn Ser Ser Val Pro Arg Arg Thr Leu Lys Met Ile Gln Pro Ser
 50 55 60

Ala Ser Gly Ser Leu Val Gly Arg Glu Asn Glu Leu Ser Ala Gly Leu
 65 70 75 80

Ser Lys Arg Lys His Arg Asn Asp His Leu Thr Ser Thr Thr Ser Ser
 85 90 95

Pro Gly Val Ile Val Pro Glu Ser Ser Glu Asn Lys Asn Leu Gly Gly
 100 105 110

Val Thr Gln Glu Ser Phe Asp Leu Met Ile Lys Glu Asn Pro Ser Ser

1104

115	120	125
Gln Tyr Trp Lys Glu Val	Ala Glu Lys Arg Arg	Lys Ala Leu Tyr Glu
130	135	140
Ala Leu Lys Glu Asn Glu	Lys Leu His Lys Glu	Ile Glu Gln Lys Asp
145	150	155 160
Asn Glu Ile Ala Arg	Leu Lys Lys Glu Asn	Lys Glu Leu Ala Glu Val
165	170	175
Ala Glu His Val Gln Tyr	Met Ala Glu Leu Ile	Glu Arg Leu Asn Gly
180	185	190
Glu Pro Leu Asp Asn Phe	Glu Ser Leu Asp Asn	Gln Glu Phe Asp Ser
195	200	205
Glu Glu Glu Thr Val Glu	Asp Ser Leu Val Glu	Asp Ser Glu Ile Gly
210	215	220
Thr Cys Ala Glu Gly Thr	Val Ser Ser Ser Thr	Asp Ala Lys Pro Cys
225	230	235 240
Ile		

<210> 1106
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1106

Phe His Thr Glu Phe Ile Thr Ile Trp Asp Val Arg Gln Cys Ser Asn
1 5 10 15
Lys His Cys Gln His Val Asn Phe Leu Lys Ser Val Gly His Ile Ala
20 25 30
Lys Asn Leu Leu Lys His Asn Cys Ile Phe Cys Phe Arg Ala Leu Leu
35 40 45
Met Phe Cys Arg Ser Asn Val Cys Ile Phe Leu Leu Asn Lys Leu Val
50 55 60
Leu Ile Leu Glu Leu Ser Asp Asp Phe Val Leu Glu Arg Thr Thr Gln
65 70 75 80
Arg Arg Gln Cys Lys Ser Lys Ser
85

1105

<210> 1107

<211> 124

<212> PRT

<213> Homo sapiens

<400> 1107

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Leu Val Val Leu Lys Arg Arg Pro Glu Lys Ser Gln Gly His Glu His
  1             5             10             15

Arg Ala Met Pro Phe Leu Asp Ile Gln Lys Arg Phe Gly Leu Asn Ile
      20             25             30

Asp Arg Trp Leu Thr Ile Gln Ser Gly Glu Gln Pro Tyr Lys Met Ala
      35             40             45

Gly Arg Cys His Ala Phe Glu Lys Glu Trp Ile Glu Cys Ala His Gly
      50             55             60

Ile Gly Tyr Thr Arg Ala Glu Lys Glu Cys Lys Ile Glu Tyr Asp Asp
      65             70             75             80

Phe Val Glu Cys Leu Leu Arg Gln Lys Thr Met Arg Arg Ala Gly Thr
      85             90             95

Ile Arg Lys Gln Arg Asp Lys Leu Ile Lys Glu Gly Lys Tyr Thr Pro
      100            105            110

Pro Pro His His Ile Gly Lys Gly Glu Pro Arg Pro
      115            120

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<210> 1108

<211> 299

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1108

1106

His	Leu	Leu	Cys	Cys	Arg	Ala	Gln	Arg	Arg	Pro	Gln	Thr	Pro	Pro	Ala	1	5	10	15
Ala	Arg	Gly	Leu	Glu	Pro	Ala	Gln	Arg	Cys	Phe	Glu	Asp	Ala	Gly	Xaa	20	25	30	
Pro	Pro	Leu	Leu	Leu	Ala	Ala	Val	Leu	Leu	Gly	Leu	Val	Leu	Leu	Val	35	40	45	
Val	Leu	Leu	Leu	Leu	Leu	Arg	His	Trp	Gly	Trp	Gly	Leu	Cys	Leu	Ile	50	55	60	
Gly	Trp	Asn	Glu	Phe	Ile	Leu	Gln	Pro	Ile	His	Asn	Leu	Leu	Met	Gly	65	70	75	80
Asp	Thr	Lys	Glu	Gln	Arg	Ile	Leu	Asn	His	Val	Leu	Gln	His	Ala	Glu	85	90	95	
Pro	Gly	Asn	Ala	Gln	Ser	Val	Leu	Glu	Ala	Ile	Asp	Thr	Tyr	Cys	Glu	100	105	110	
Gln	Lys	Glu	Trp	Ala	Met	Asn	Val	Gly	Asp	Lys	Lys	Gly	Lys	Ile	Val	115	120	125	
Asp	Ala	Val	Ile	Gln	Glu	His	Gln	Pro	Ser	Val	Leu	Leu	Glu	Leu	Gly	130	135	140	
Ala	Tyr	Cys	Gly	Tyr	Ser	Ala	Val	Arg	Met	Ala	Arg	Leu	Leu	Ser	Pro	145	150	155	160
Gly	Ala	Arg	Leu	Ile	Thr	Ile	Glu	Ile	Asn	Pro	Asp	Cys	Ala	Ala	Ile	165	170	175	
Thr	Gln	Arg	Met	Val	Asp	Phe	Ala	Gly	Xaa	Lys	Asp	Lys	Val	Thr	Leu	180	185	190	
Val	Val	Gly	Ala	Ser	Gln	Asp	Ile	Ile	Pro	Gln	Leu	Lys	Lys	Lys	Tyr	195	200	205	
Asp	Val	Asp	Thr	Leu	Asp	Met	Val	Phe	Leu	Asp	His	Trp	Lys	Asp	Arg	210	215	220	
Tyr	Leu	Pro	Asp	Thr	Leu	Leu	Leu	Glu	Glu	Cys	Gly	Leu	Leu	Arg	Lys	225	230	235	240
Gly	Thr	Val	Leu	Leu	Ala	Asp	Asn	Val	Ile	Cys	Pro	Gly	Ala	Pro	Asp	245	250	255	
Phe	Leu	Ala	His	Val	Arg	Gly	Ser	Ser	Cys	Phe	Glu	Cys	Thr	His	Tyr	260	265	270	

1107

Gln Ser Phe Leu Glu Tyr Arg Glu Val Val Asp Gly Leu Glu Lys Ala
 275 280 285

Ile Tyr Lys Gly Pro Gly Ser Glu Ala Gly Pro
 290 295

<210> 1109

<211> 300

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1109

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Arg Leu Arg Asp Leu
 1 5 10 15

Leu Thr Arg Arg Leu Thr Gly Ser Asn Tyr Pro Gly Leu Ser Ile Ser
 20 25 30

Leu Arg Leu Thr Gly Ser Ser Ala Gln Glu Xaa Ala Ser Gly Val Ala
 35 40 45

Leu Gly Glu Ala Pro Asp His Ser Tyr Glu Ser Leu Arg Val Thr Ser
 50 55 60

Ala Gln Lys His Val Leu His Val Gln Leu Asn Arg Pro Asn Lys Arg
 65 70 75 80

Asn Ala Met Asn Lys Val Phe Trp Arg Glu Met Val Glu Cys Phe Asn
 85 90 95

Lys Ile Ser Arg Asp Ala Asp Cys Arg Ala Val Val Ile Ser Gly Ala
 100 105 110

Gly Lys Met Phe Thr Ala Gly Ile Asp Leu Met Asp Met Ala Ser Asp
 115 120 125

Ile Leu Gln Pro Lys Gly Asp Asp Val Ala Arg Ile Ser Trp Tyr Leu
 130 135 140

Arg Asp Ile Ile Thr Arg Tyr Gln Glu Thr Phe Asn Val Ile Glu Arg
 145 150 155 160

Cys Pro Lys Pro Val Ile Ala Ala Val His Gly Gly Cys Ile Gly Gly
 165 170 175

1108

Gly Val Asp Leu Val Thr Ala Cys Asp Ile Arg Tyr Cys Ala Gln Asp
 180 185 190
 Ala Phe Phe Gln Val Lys Glu Val Asp Val Gly Leu Ala Ala Asp Val
 195 200 205
 Gly Thr Leu Gln Arg Leu Pro Lys Val Ile Gly Asn Gln Ser Leu Val
 210 215 220
 Asn Glu Leu Ala Phe Thr Ala Arg Lys Met Met Ala Asp Glu Ala Leu
 225 230 235 240
 Gly Ser Gly Leu Val Ser Arg Val Phe Pro Asp Lys Glu Val Met Leu
 245 250 255
 Asp Ala Ala Leu Ala Leu Ala Ala Glu Ile Ser Ser Lys Ser Pro Val
 260 265 270
 Ala Cys Arg Ala Pro Arg Ser Thr Cys Cys Ile Pro Ala Thr Ile Arg
 275 280 285
 Trp Pro Arg Ala Ser Thr Thr Trp Arg Pro Gly Thr
 290 295 300

<210> 1110

<211> 230

<212> PRT

<213> Homo sapiens

<400> 1110

Arg Ser Cys Ala Leu Val Cys Lys His Trp Tyr Arg Cys Leu His Gly
 1 5 10 15
 Asp Glu Asn Ser Glu Val Trp Arg Ser Leu Cys Ala Arg Ser Leu Ala
 20 25 30
 Glu Glu Ala Leu Arg Thr Asp Ile Leu Cys Asn Leu Pro Ser Tyr Lys
 35 40 45
 Ala Lys Ile Arg Ala Phe Gln His Ala Phe Ser Thr Asn Asp Cys Ser
 50 55 60
 Arg Asn Val Tyr Ile Lys Lys Asn Gly Phe Thr Leu His Arg Asn Pro
 65 70 75 80
 Ile Ala Gln Ser Thr Asp Gly Ala Arg Thr Lys Ile Gly Phe Ser Glu
 85 90 95

1109

Gly Arg His Ala Trp Glu Val Trp Trp Glu Gly Pro Leu Gly Thr Val
 100 105 110

Ala Val Ile Gly Ile Ala Thr Lys Arg Ala Pro Met Gln Cys Gln Gly
 115 120 125

Tyr Val Ala Leu Leu Gly Ser Asp Asp Gln Ser Trp Gly Trp Asn Leu
 130 135 140

Val Asp Asn Asn Leu Leu His Asn Gly Glu Val Asn Gly Ser Phe Pro
 145 150 155 160

Gln Cys Asn Asn Ala Pro Lys Tyr Gln Ile Gly Glu Arg Ile Arg Val
 165 170 175

Ile Leu Asp Met Glu Asp Lys Thr Leu Ala Phe Glu Arg Gly Tyr Glu
 180 185 190

Phe Leu Gly Val Ala Phe Arg Gly Leu Pro Lys Val Cys Leu Tyr Pro
 195 200 205

Ala Val Ser Ala Val Tyr Gly Asn Thr Glu Val Thr Leu Val Tyr Leu
 210 215 220

Gly Lys Pro Leu Asp Gly
 225 230

<210> 1111

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1111

Pro Xaa Leu Thr Lys Gly Asn Lys Ser Trp Xaa Ser Thr Ala Val Xaa

1110

1 5 10 15
 Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Pro
 20 25 30
 Gln Lys Asn Leu Lys Asn Thr Val Phe Cys Ile Asp Ile Cys Thr Val
 35 40 45
 Cys Val Cys Val Cys Glu Ile Lys Ile Arg Phe
 50 55

<210> 1112

<211> 425

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1112

Cys Ile Xaa Gly Phe Tyr Phe Ala Val Leu Ala Pro Gln Glu Leu Leu
 1 5 10 15
 Ile Tyr Glu Met Ala Glu Asn Gly Lys Asn Cys Asp Gln Arg Arg Val
 20 25 30
 Ala Met Asn Lys Glu His His Asn Gly Asn Phe Thr Asp Pro Ser Ser
 35 40 45
 Val Asn Glu Lys Lys Arg Arg Glu Arg Glu Glu Arg Gln Asn Ile Val
 50 55 60
 Leu Trp Arg Gln Pro Leu Ile Thr Leu Gln Tyr Phe Ser Leu Glu Ile
 65 70 75 80
 Leu Val Ile Leu Lys Glu Trp Xaa Ser Lys Leu Trp His Arg Gln Ser
 85 90 95

1111

Ile	Val	Val	Ser	Phe	Leu	Leu	Leu	Leu	Ala	Val	Leu	Ile	Ala	Thr	Tyr	100	105	110	
Tyr	Val	Glu	Gly	Val	His	Gln	Gln	Tyr	Val	Gln	Arg	Ile	Glu	Lys	Gln	115	120	125	
Phe	Leu	Leu	Tyr	Ala	Tyr	Trp	Ile	Gly	Leu	Gly	Ile	Leu	Ser	Ser	Val	130	135	140	
Gly	Leu	Gly	Thr	Gly	Leu	His	Thr	Phe	Leu	Leu	Tyr	Leu	Gly	Pro	His	145	150	155	160
Ile	Ala	Ser	Val	Thr	Leu	Ala	Ala	Tyr	Glu	Cys	Asn	Ser	Val	Asn	Phe	165	170	175	
Pro	Glu	Pro	Pro	Tyr	Pro	Asp	Gln	Ile	Ile	Cys	Pro	Asp	Glu	Glu	Gly	180	185	190	
Thr	Glu	Gly	Thr	Ile	Ser	Leu	Trp	Ser	Ile	Ile	Ser	Lys	Val	Arg	Ile	195	200	205	
Glu	Ala	Cys	Met	Trp	Gly	Ile	Gly	Thr	Ala	Ile	Gly	Glu	Leu	Pro	Pro	210	215	220	
Tyr	Phe	Met	Xaa	Arg	Ala	Ala	Arg	Leu	Ser	Gly	Ala	Glu	Pro	Asp	Asp	225	230	235	240
Glu	Glu	Tyr	Gln	Glu	Phe	Glu	Glu	Met	Leu	Glu	His	Ala	Glu	Ser	Ala	245	250	255	
Gln	Asp	Phe	Ala	Ser	Arg	Ala	Lys	Leu	Ala	Val	Gln	Lys	Leu	Val	Gln	260	265	270	
Lys	Val	Gly	Phe	Phe	Gly	Ile	Leu	Ala	Cys	Ala	Ser	Ile	Pro	Asn	Pro	275	280	285	
Leu	Phe	Asp	Leu	Ala	Gly	Ile	Thr	Cys	Gly	His	Phe	Leu	Val	Pro	Phe	290	295	300	
Trp	Thr	Phe	Phe	Gly	Ala	Thr	Leu	Ile	Gly	Lys	Ala	Ile	Ile	Lys	Met	305	310	315	320
His	Ile	Gln	Lys	Ile	Phe	Val	Ile	Ile	Thr	Phe	Ser	Lys	His	Ile	Val	325	330	335	
Glu	Gln	Met	Val	Ala	Phe	Ile	Gly	Ala	Val	Pro	Gly	Ile	Gly	Pro	Ser	340	345	350	
Leu	Gln	Lys	Pro	Phe	Gln	Glu	Tyr	Leu	Glu	Ala	Gln	Arg	Gln	Lys	Leu	355	360	365	

1112

His His Lys Ser Glu Met Gly Thr Pro Gln Gly Glu Asn Trp Leu Ser
 370 375 380
 Trp Met Phe Glu Lys Leu Val Val Val Met Val Cys Tyr Phe Ile Leu
 385 390 395 400
 Ser Ile Ile Asn Ser Met Ala Gln Ser Tyr Ala Lys Arg Ile Gln Gln
 405 410 415
 Arg Leu Asn Ser Glu Glu Lys Thr Lys
 420 425

<210> 1113

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1113

Xaa Ile Glu Ile Asn Pro His Val Lys Gly Thr Lys Ala Gly Ala Pro
 1 5 10 15
 Pro Arg Cys Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu
 20 25 30
 Phe Gly Thr Ser Ser Ser Thr Pro Ala Arg Pro Ser Ser His His Ser
 35 40 45
 Ala Cys Phe Leu Gly Pro Glu Ile Met Pro Leu Gly Leu Leu Trp Leu
 50 55 60
 Gly Leu Ala Leu Leu Gly Ala Leu His Ala Gln Ala Gln Asp Ser Thr
 65 70 75 80
 Ser Asp Leu Ile Pro Ala Pro Pro Leu Ser Lys Val Pro Leu Gln Gln
 85 90 95
 Asn Phe Gln Asp Asn Gln Phe Gln Gly Lys Trp Tyr Val Val Gly Leu
 100 105 110
 Ala Gly Asn Ala Ile Leu Arg Glu Asp Lys Asp Pro Gln Lys Met Tyr
 115 120 125
 Ala Thr Ile Tyr Glu Leu Lys Glu Asp Lys Ser Tyr Asn Val Thr Ser

1113

130		135		140
Val Leu Phe Arg Lys Lys Lys Cys Asp Tyr Trp Ile Arg Thr Phe Val				
145		150		155
Pro Gly Cys Gln Pro Gly Glu Phe Thr Leu Gly Asn Ile Lys Ser Tyr				
	165		170	175
Pro Gly Leu Thr Ser Tyr Leu Val Arg Val Val Ser Thr Asn Tyr Asn				
	180		185	190
Gln His Ala Met Val Phe Phe Lys Lys Val Ser Gln Asn Arg Glu Tyr				
	195		200	205
Phe Lys Ile Thr Leu Tyr Gly Arg Thr Lys Glu Leu Thr Ser Glu Leu				
	210		215	220
Lys Glu Asn Phe Ile Arg Phe Ser Lys Ser Leu Gly Leu Pro Glu Asn				
	225		230	235
				240
His Ile Val Phe Pro Val Pro Ile Asp Gln Cys Ile Asp Gly				
	245		250	

<210> 1114

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1114

Ala Ser Glu Glu Ala Asn Pro Ala Gly Ile Arg Ala Ile Arg Thr Ala				
1		5		10
				15
Thr Met Thr Val Gly Lys Ser Ser Lys Met Leu Gln His Ile Asp Tyr				
	20		25	30
Arg Met Arg Cys Ile Leu Gln Asp Gly Arg Ile Phe Ile Gly Thr Phe				
	35		40	45
Lys Ala Phe Asp Lys His Met Asn Leu Ile Leu Cys Asp Cys Asp Glu				
	50		55	60
Phe Arg Lys Ile Lys Pro Lys Asn Ser Lys Gln Ala Glu Arg Glu Glu				
	65		70	75
				80
Lys Arg Val Leu Gly Leu Val Leu Leu Arg Gly Glu Asn Leu Val Ser				
		85	90	95
Met Thr Val Glu Gly Pro Pro Pro Lys Asp Thr Gly Ile Ala Arg Val				
	100		105	110

1114

Pro Leu Ala Gly Ala Ala Gly Gly Pro Gly Ile Gly Arg Ala Ala Gly
 115 120 125
 Arg Gly Ile Pro Ala Gly Val Pro Met Pro Gln Ala Pro Ala Gly Leu
 130 135 140
 Ala Gly Pro Val Arg Gly Val Gly Gly Pro Ser Gln Gln Val Met Thr
 145 150 155 160
 Pro Gln Gly Arg Gly Thr Val Ala Ala Ala Ala Ala Ala Thr Ala
 165 170 175
 Ser Ile Ala Gly Ala Pro Thr Gln Tyr Pro Pro Gly Arg Gly Gly Pro
 180 185 190
 Pro Pro Pro Met Gly Arg Gly Ala Pro Pro Pro Gly Met Met Gly Pro
 195 200 205
 Pro Pro Gly Met Arg Pro Pro Met Gly Pro Pro Met Gly Ile Pro Pro
 210 215 220
 Gly Arg Gly Thr Pro Met Gly Met Pro Pro Pro Gly Met Arg Pro Pro
 225 230 235 240
 Pro Pro Gly Met Arg Gly Leu Leu
 245

<210> 1115

<211> 777

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

1115

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1115

```

Leu Thr Lys Gly Xaa Lys Ser Trp Xaa Ser Thr Ala Val Xaa Thr Ala
 1             5             10             15

Leu Glu Leu Val Xaa Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Xaa
      20             25             30

Pro Pro Leu Gly Ser Ser Pro Leu Gly Arg Arg Phe Arg Val Leu Ser
      35             40             45

Ser Leu Arg Arg Ser Pro Met Phe Glu Glu Lys Ala Ser Ser Pro Ser
      50             55             60

Gly Lys Met Gly Gly Glu Glu Lys Pro Ile Gly Ala Gly Glu Glu Lys
 65             70             75             80

Gln Lys Glu Gly Gly Lys Lys Lys Asn Lys Glu Gly Ser Gly Asp Gly
      85             90             95

Gly Arg Ala Glu Leu Asn Pro Trp Pro Glu Tyr Ile Tyr Thr Arg Leu
      100             105             110

Glu Met Tyr Asn Ile Leu Lys Ala Glu His Asp Ser Ile Leu Ala Glu
      115             120             125

Lys Ala Glu Lys Asp Ser Lys Pro Ile Lys Val Thr Leu Pro Asp Gly
      130             135             140

Lys Gln Val Asp Ala Glu Ser Trp Lys Thr Thr Pro Tyr Gln Ile Ala
      145             150             155             160

Cys Gly Ile Ser Gln Gly Leu Ala Asp Asn Thr Val Ile Ala Lys Val
      165             170             175

Asn Asn Val Val Trp Asp Leu Asp Arg Pro Leu Glu Glu Asp Cys Thr
      180             185             190

Leu Glu Leu Leu Lys Phe Glu Asp Glu Glu Ala Gln Ala Val Tyr Trp
      195             200             205

His Ser Ser Ala His Ile Met Gly Glu Ala Met Glu Arg Val Tyr Gly
      210             215             220

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1116

Gly	Cys	Leu	Cys	Tyr	Gly	Pro	Pro	Ile	Glu	Asn	Gly	Phe	Tyr	Tyr	Asp	225	230	235	240
Met	Tyr	Leu	Glu	Glu	Gly	Gly	Val	Ser	Ser	Asn	Asp	Phe	Ser	Ser	Leu	245	250	255	
Glu	Ala	Leu	Cys	Lys	Lys	Ile	Ile	Lys	Glu	Lys	Gln	Ala	Phe	Glu	Arg	260	265	270	
Leu	Glu	Val	Lys	Lys	Glu	Thr	Leu	Leu	Ala	Met	Phe	Lys	Tyr	Asn	Lys	275	280	285	
Phe	Lys	Cys	Arg	Ile	Leu	Asn	Glu	Lys	Val	Asn	Thr	Pro	Thr	Thr	Thr	290	295	300	
Val	Tyr	Arg	Cys	Gly	Pro	Leu	Ile	Asp	Leu	Cys	Arg	Gly	Pro	His	Val	305	310	315	320
Arg	His	Thr	Gly	Lys	Ile	Lys	Ala	Leu	Lys	Ile	His	Lys	Asn	Ser	Ser	325	330	335	
Thr	Tyr	Trp	Glu	Gly	Lys	Ala	Asp	Met	Glu	Thr	Leu	Gln	Arg	Ile	Tyr	340	345	350	
Gly	Ile	Ser	Phe	Pro	Asp	Pro	Lys	Met	Leu	Lys	Glu	Trp	Glu	Lys	Phe	355	360	365	
Gln	Glu	Glu	Ala	Lys	Asn	Arg	Asp	His	Arg	Lys	Ile	Gly	Arg	Asp	Gln	370	375	380	
Glu	Leu	Tyr	Phe	Phe	His	Glu	Leu	Ser	Pro	Gly	Ser	Cys	Phe	Phe	Leu	385	390	395	400
Pro	Lys	Gly	Ala	Tyr	Ile	Tyr	Asn	Ala	Leu	Ile	Glu	Phe	Ile	Arg	Ser	405	410	415	
Glu	Tyr	Arg	Lys	Arg	Gly	Phe	Gln	Glu	Val	Val	Thr	Pro	Asn	Ile	Phe	420	425	430	
Asn	Ser	Arg	Leu	Trp	Met	Thr	Ser	Gly	His	Trp	Gln	His	Tyr	Ser	Glu	435	440	445	
Asn	Met	Phe	Ser	Phe	Glu	Val	Glu	Lys	Glu	Leu	Phe	Ala	Leu	Lys	Pro	450	455	460	
Met	Asn	Cys	Pro	Gly	His	Cys	Leu	Met	Phe	Asp	His	Arg	Pro	Arg	Ser	465	470	475	480
Trp	Arg	Glu	Leu	Pro	Leu	Arg	Leu	Ala	Asp	Phe	Gly	Val	Leu	His	Arg	485	490	495	

1117

Asn	Glu	Leu	Ser	Gly	Ala	Leu	Thr	Gly	Leu	Thr	Arg	Val	Arg	Arg	Phe	500	505	510
Gln	Gln	Asp	Asp	Ala	His	Ile	Phe	Cys	Ala	Met	Glu	Gln	Ile	Glu	Asp	515	520	525
Glu	Ile	Lys	Gly	Cys	Leu	Asp	Phe	Leu	Arg	Thr	Val	Tyr	Ser	Val	Phe	530	535	540
Gly	Phe	Ser	Phe	Lys	Leu	Asn	Leu	Ser	Thr	Arg	Pro	Glu	Lys	Phe	Leu	545	550	555
Gly	Asp	Ile	Glu	Val	Trp	Asp	Gln	Ala	Glu	Lys	Gln	Leu	Glu	Asn	Ser	565	570	575
Leu	Asn	Glu	Phe	Gly	Glu	Lys	Trp	Glu	Leu	Asn	Ser	Gly	Asp	Gly	Ala	580	585	590
Phe	Tyr	Gly	Pro	Lys	Ile	Asp	Ile	Gln	Ile	Lys	Asp	Ala	Ile	Gly	Arg	595	600	605
Tyr	His	Gln	Cys	Ala	Thr	Ile	Gln	Leu	Asp	Phe	Gln	Leu	Pro	Ile	Arg	610	615	620
Phe	Asn	Leu	Thr	Tyr	Val	Ser	His	Asp	Gly	Asp	Asp	Lys	Lys	Arg	Pro	625	630	635
Val	Ile	Val	His	Arg	Ala	Ile	Leu	Gly	Ser	Val	Glu	Arg	Met	Ile	Ala	645	650	655
Ile	Leu	Thr	Glu	Asn	Tyr	Gly	Gly	Lys	Trp	Pro	Phe	Trp	Leu	Ser	Pro	660	665	670
Arg	Gln	Val	Met	Val	Val	Pro	Val	Gly	Pro	Thr	Cys	Asp	Glu	Tyr	Ala	675	680	685
Gln	Lys	Val	Arg	Gln	Gln	Phe	His	Asp	Ala	Lys	Phe	Met	Ala	Asp	Ile	690	695	700
Asp	Leu	Asp	Pro	Gly	Cys	Thr	Leu	Asn	Lys	Lys	Ile	Arg	Asn	Ala	Gln	705	710	715
Leu	Ala	Gln	Tyr	Asn	Phe	Ile	Leu	Val	Val	Gly	Glu	Lys	Glu	Lys	Ile	725	730	735
Ser	Gly	Thr	Val	Asn	Ile	Arg	Thr	Arg	Asp	Asn	Lys	Val	His	Gly	Glu	740	745	750
Arg	Thr	Ile	Ser	Glu	Thr	Ile	Glu	Arg	Leu	Gln	Gln	Leu	Lys	Glu	Phe	755	760	765

1118

Arg Ser Lys Gln Ala Glu Glu Glu Phe
 770 775

<210> 1116

<211> 360

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1116

Thr Thr Ser Ala Xaa Arg Trp Asp Gly Thr Arg Gly Arg Thr Arg Gly
 1 5 10 15

Arg Thr Xaa Gly Phe Gly Asn Leu Ser Ile Thr Gln Xaa Trp Met Met
 20 25 30

Trp Ala Met Val Ser Xaa Met Glu Ile Asp Gln Pro Ala Gly Thr Gly
 35 40 45

Thr Leu Ser Arg Thr Asn Pro Pro Thr Gln Lys Pro Pro Ser Pro Pro
 50 55 60

Met Ser Gly Arg Gly Thr Leu Gly Arg Asn Thr Pro Tyr Lys Thr Leu
 65 70 75 80

Glu Pro Val Lys Pro Pro Thr Val Pro Asn Asp Tyr Met Thr Ser Pro
 85 90 95

Ala Arg Leu Gly Ser Gln His Ser Pro Gly Arg Thr Ala Ser Leu Asn

1119

100	105	110
Gln Arg Pro Arg Thr His Ser Gly Ser Ser Gly Gly Ser Gly Ser Arg		
115	120	125
Glu Asn Ser Gly Ser Ser Ser Ile Gly Ile Pro Ile Ala Val Pro Thr		
130	135	140
Pro Ser Pro Pro Thr Ile Gly Pro Ala Ala Pro Gly Ser Ala Pro Gly		
145	150	155
Ser Gln Tyr Gly Thr Met Thr Arg Gln Ile Ser Arg His Asn Ser Thr		
165	170	175
Thr Ser Ser Thr Ser Ser Gly Gly Tyr Arg Arg Thr Pro Ser Val Thr		
180	185	190
Ala Gln Phe Ser Ala Gln Pro His Val Asn Gly Gly Pro Leu Tyr Ser		
195	200	205
Gln Asn Ser Ile Ser Ile Ala Pro Pro Pro Pro Pro Met Pro Gln Leu		
210	215	220
Thr Pro Gln Ile Pro Leu Thr Gly Phe Val Ala Arg Val Gln Glu Asn		
225	230	235
Ile Ala Asp Ser Pro Thr Pro Pro Pro Pro Pro Pro Pro Asp Asp Ile		
245	250	255
Pro Met Phe Asp Asp Ser Pro Pro Pro Pro Pro Pro Pro Pro Val Asp		
260	265	270
Tyr Glu Asp Glu Glu Ala Ala Val Val Gln Tyr Asn Asp Pro Tyr Ala		
275	280	285
Asp Gly Asp Pro Ala Trp Ala Pro Lys Asn Tyr Ile Glu Lys Val Val		
290	295	300
Ala Ile Tyr Asp Tyr Thr Lys Asp Lys Asp Asp Glu Leu Ser Phe Met		
305	310	315
Glu Gly Ala Ile Ile Tyr Val Ile Lys Lys Asn Asp Asp Gly Trp Tyr		
325	330	335
Glu Gly Val Cys Asn Arg Val Thr Gly Leu Phe Pro Gly Asn Tyr Val		
340	345	350
Glu Ser Ile Met His Tyr Thr Asp		
355	360	

1120

<210> 1117

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1117

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Pro Ala Arg Leu Gly Ile Thr Cys His Ser Pro Ala Ile Leu Ser Thr
 1              5              10              15

Ala Leu Trp Gly Gly Ser Ser Pro Ile Pro Asp Ala Pro Thr Thr Gln
              20              25              30

Trp Lys Val Thr Lys Pro Ala Pro Cys Pro Arg Pro Arg Arg Val Glu
              35              40              45

Pro Val Cys Ser Gly Leu Gln Ala Gln Ile Leu His Cys Tyr Arg Asp
              50              55              60

Arg Pro His Glu Val Leu Leu Cys Ser Asp Leu Val Lys Ala Tyr Gln
              65              70              75              80

Arg Cys Val Ser Ala Xaa His Lys Gly
              85

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<210> 1118

<211> 347

<212> PRT

<213> Homo sapiens

<400> 1118

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Arg Gly Val Val Asp Ser Glu Asp Leu Pro Leu Asn Ile Ser Arg Glu
 1              5              10              15

Met Leu Gln Gln Ser Lys Ile Leu Lys Val Ile Arg Lys Asn Ile Val
              20              25              30

Lys Lys Cys Leu Glu Leu Phe Ser Glu Leu Ala Glu Asp Lys Glu Asn
              35              40              45

Tyr Lys Lys Phe Tyr Glu Ala Phe Ser Lys Asn Leu Lys Leu Gly Ile
              50              55              60

His Glu Asp Ser Thr Asn Arg Arg Arg Leu Ser Glu Leu Leu Arg Tyr

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1121

65					70					75					80
His	Thr	Ser	Gln	Ser	Gly	Asp	Glu	Met	Thr	Ser	Leu	Ser	Glu	Tyr	Val
				85					90					95	
Ser	Arg	Met	Lys	Glu	Thr	Gln	Lys	Ser	Ile	Tyr	Tyr	Ile	Thr	Gly	Glu
			100					105					110		
Ser	Lys	Glu	Gln	Val	Ala	Asn	Ser	Ala	Phe	Val	Glu	Arg	Val	Arg	Lys
		115						120				125			
Arg	Gly	Phe	Glu	Val	Val	Tyr	Met	Thr	Glu	Pro	Ile	Asp	Glu	Tyr	Cys
	130					135					140				
Val	Gln	Gln	Leu	Lys	Glu	Phe	Asp	Gly	Lys	Ser	Leu	Val	Ser	Val	Thr
145					150					155					160
Lys	Glu	Gly	Leu	Glu	Leu	Pro	Glu	Asp	Glu	Glu	Glu	Lys	Lys	Lys	Met
			165						170					175	
Glu	Glu	Ser	Lys	Ala	Lys	Phe	Glu	Asn	Leu	Cys	Lys	Leu	Met	Lys	Glu
			180					185					190		
Ile	Leu	Asp	Lys	Lys	Val	Glu	Lys	Val	Thr	Ile	Ser	Asn	Arg	Leu	Val
		195						200					205		
Ser	Ser	Pro	Cys	Cys	Ile	Val	Thr	Ser	Thr	Tyr	Gly	Trp	Thr	Ala	Asn
		210					215					220			
Met	Glu	Arg	Ile	Met	Lys	Ala	Gln	Ala	Leu	Arg	Asp	Asn	Ser	Thr	Met
225					230					235					240
Gly	Tyr	Met	Met	Ala	Lys	Lys	His	Leu	Glu	Ile	Asn	Pro	Asp	His	Pro
				245					250					255	
Ile	Val	Glu	Thr	Leu	Arg	Gln	Lys	Ala	Glu	Ala	Asp	Lys	Asn	Asp	Lys
			260					265					270		
Ala	Val	Lys	Asp	Leu	Val	Val	Leu	Leu	Phe	Glu	Thr	Ala	Leu	Leu	Ser
		275						280				285			
Ser	Gly	Phe	Ser	Leu	Glu	Asp	Pro	Gln	Thr	His	Ser	Asn	Arg	Ile	Tyr
		290				295					300				
Arg	Met	Ile	Lys	Leu	Gly	Leu	Gly	Ile	Asp	Glu	Asp	Glu	Val	Ala	Ala
305					310					315					320
Glu	Glu	Pro	Asn	Ala	Ala	Val	Pro	Asp	Glu	Ile	Pro	Pro	Leu	Glu	Gly
			325						330					335	
Asp	Glu	Asp	Ala	Ser	Arg	Met	Glu	Glu	Val	Asp					

1122

340

345

<210> 1119

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1119

Pro Gly Ser Pro Asp Val Asn Arg Ala Val Val Arg Pro Pro Pro Pro
 1 5 10 15

Pro Pro Pro Pro Pro Pro Ala Pro Gln Pro Thr Met Ser Arg Arg Lys
 20 25 30

Gln Gly Lys Pro Gln His Leu Ser Lys Arg Glu Phe Ser Pro Glu Pro
 35 40 45

Leu Glu Ala Ile Leu Thr Asp Asp Glu Pro Asp His Gly Pro Leu Gly
 50 55 60

Ala Pro Glu Gly Asp His Asp Leu Leu Thr Cys Gly Gln Cys Gln Met
 65 70 75 80

Asn Phe Pro Leu Gly Asp Ile Leu Ile Phe Ile Glu His Lys Arg Lys
 85 90 95

Gln Cys Asn Gly Ser Leu Cys Leu Glu Lys Ala Val Asp Lys Pro Pro
 100 105 110

Ser Pro Ser Pro Ile Glu Met Lys Lys Ala Ser Asn Pro Val Glu Val
 115 120 125

Gly Ile Gln Val Thr Pro Glu Asp Asp Asp Cys Leu Ser Thr Ser Ser
 130 135 140

Arg Gly Ile Cys Pro Lys Gln Glu His Ile Ala Asp Lys Leu Leu His
 145 150 155 160

Trp Arg Gly Leu Ser Ser Pro Arg Ser Xaa Thr Trp Ser Ser Asn Pro
 165 170 175

His Ala Trp Asp Glu Cys Arg Ile Cys Pro Ala Gly Ile Cys Lys Asp
 180 185 190

1123

Glu Pro Ser Ser Tyr Thr Cys Thr Thr Cys Lys Gln Pro Phe Thr Ser
 195 200 205

 Ala Trp Phe Leu Leu Gln His Ala Gln Asn Thr His Gly Leu Arg Ile
 210 215 220

 Tyr Leu Glu Ser Glu His Gly Ser Pro Leu Thr Pro Arg Val Gly Ile
 225 230 235 240

 Pro Ser Gly Leu Gly Ala Glu Cys Pro Ser Gln Pro Pro Leu His Gly
 245 250 255

 Ile His Ile Ala Asp Asn Asn Pro Phe Asn Leu Leu Arg Ile Pro Gly
 260 265 270

 Ser Val Ser Arg Glu Ala Ser Gly Leu Gly Arg Arg Ala Leu Ser Thr
 275 280 285

 His Ser Pro Pro Val
 290

<210> 1120
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 1120
 Ala Ala Ala Ala Ala Gly Asp Pro Gly Ala Met Gly Arg Ala Arg Asp
 1 5 10 15

 Ala Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys
 20 25 30

 Phe Lys Leu Lys Leu Leu Ser Val Pro Leu Arg Glu Gly Tyr Gly Arg
 35 40 45

 Ile Pro Arg Gly Ala Leu Leu Ser Met Asp Ala Leu Asp Leu Thr Asp
 50 55 60

 Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala
 65 70 75 80

 Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln
 85 90 95

 Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Ala Gly Ile Gln Ala
 100 105 110

 Pro Pro Gln Ser Ala Ala Lys Pro Gly Leu His Phe Ile Asp Gln His

1124

115	120	125
Arg Ala Ala Leu Ile Ala Arg Val Thr Asn Val Glu Trp Leu Leu Asp		
130	135	140
Ala Leu Tyr Gly Lys Val Leu Thr Asp Glu Gln Tyr Gln Ala Val Arg		
145	150	155
Pro Ser Pro Pro Thr Gln Ala Arg Cys Gly Ser Ser Ser Val Ser His		
	165	170
Gln Pro Gly Thr Gly Pro Ala Arg Thr Cys Ser Ser Arg Pro		
	180	185
		190

<210> 1121

<211> 217

<212> PRT

<213> Homo sapiens

<400> 1121

Gly Arg Lys Trp Phe Cys Pro Tyr Lys Thr Trp Arg Lys Ala Phe Leu		
1	5	10
Ser Pro Arg Lys Arg His Val Met Ser Gln Ser Cys Gly Ala Arg Ala		
	20	25
Glu Val Gln Ala Thr Gly Ser Asp Gly Ala Pro Thr Lys Ala Leu Gly		
	35	40
Leu Val Arg Val Ala Ala Val Ser Ser Asp Ser Cys Val Val Pro Met		
	50	55
Val Glu Lys Lys Thr Ser Val Arg Ser Gln Asp Pro Gly Gln Arg Arg		
	65	70
Val Leu Asp Arg Ala Ala Arg Gln Arg Arg Ile Asn Arg Gln Leu Glu		
	85	90
Ala Leu Glu Asn Asp Asn Phe Gln Asp Asp Pro His Ala Gly Leu Pro		
	100	105
Gln Leu Gly Lys Arg Leu Pro Gln Phe Asp Asp Asp Ala Asp Thr Gly		
	115	120
Lys Lys Lys Lys Lys Thr Arg Gly Asp His Phe Lys Leu Arg Phe Arg		
	130	135
Lys Asn Phe Gln Ala Leu Leu Glu Glu Gln Asn Leu Ser Val Ala Glu		
	145	150
		155
		160

1125

Gly Pro Asn Tyr Leu Thr Ala Cys Ala Gly Pro Pro Ser Arg Pro Gln
 165 170 175

Arg Pro Phe Cys Ala Val Cys Gly Phe Pro Ser Pro Tyr Thr Cys Val
 180 185 190

Ser Cys Gly Ala Arg Tyr Cys Thr Val Arg Cys Leu Gly Thr His Gln
 195 200 205

Glu Thr Arg Cys Leu Lys Trp Thr Val
 210 215

<210> 1122
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1122
 Gly Asn Cys Gln Lys Cys Ala Phe Gly Tyr Ser Gly Leu Asp Cys Lys
 1 5 10 15

Asp Lys Phe Gln Leu Ile Leu Thr Ile Val Gly Thr Ile Ala Gly Ile
 20 25 30

Val Ile Leu Ser Met Ile Ile Ala Leu Ile Val Thr Ala Arg Ser Asn
 35 40 45

Asn Lys Thr Lys His Ile Glu Glu Glu Asn Leu Ile Asp Glu Asp Phe
 50 55 60

Gln Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr Asn Leu Gly Ala Glu
 65 70 75 80

Gly Ser Val Phe Pro Lys Val Arg Ile Thr Ala Ser Arg Asp Ser Gln
 85 90 95

Met Gln Asn Pro Tyr Ser Ser His Ser Ser Met Pro Arg Pro Asp Tyr
 100 105 110

<210> 1123
 <211> 216
 <212> PRT
 <213> Homo sapiens

1126

<400> 1123

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Gly Lys Leu Val Cys Gly Met Val Ser Tyr Leu Asn Asp Leu Pro Ser
 1             5             10             15

Gln Arg Ile Gln Pro Gln Gln Val Ala Val Trp Pro Thr Met Val Asp
      20             25             30

Ile Asn Ser Pro Glu Ser Leu Thr Glu Ala Tyr Lys Leu Arg Ala Ala
      35             40             45

Arg Leu Val Glu Ile Ala Ala Lys Asn Leu Gln Lys Glu Val Ile His
      50             55             60

Arg Lys Ser Lys Glu Val Ala Trp Asn Leu Thr Ser Val Asp Leu Val
      65             70             75             80

Arg Ala Ser Glu Ala His Cys His Tyr Val Val Val Lys Leu Phe Ser
      85             90             95

Glu Lys Leu Leu Lys Ile Gln Asp Lys Ala Ile Gln Ala Val Leu Arg
      100            105            110

Ser Leu Cys Leu Leu Tyr Ser Leu Tyr Gly Ile Ser Gln Asn Ala Gly
      115            120            125

Asp Phe Leu Gln Gly Ser Ile Met Thr Glu Pro Gln Ile Thr Gln Val
      130            135            140

Asn Gln Arg Val Lys Glu Leu Leu Thr Leu Ile Arg Ser Asp Ala Val
      145            150            155            160

Ala Leu Val Asp Ala Phe Asp Phe Gln Asp Val Thr Leu Gly Ser Val
      165            170            175

Leu Gly Arg Tyr Asp Gly Asn Val Tyr Glu Asn Leu Phe Glu Trp Ala
      180            185            190

Lys Asn Ser Pro Leu Asn Lys Ala Glu Val His Glu Ser Tyr Lys His
      195            200            205

Leu Lys Ser Leu Gln Ser Lys Leu
      210            215

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<210> 1124

<211> 218

<212> PRT

<213> Homo sapiens

1127

<400> 1124

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Pro Ser Pro Arg Pro Pro Asp Pro Glu Ser Ser Gln Leu Arg Pro Gly
  1              5              10              15

Gly Asp Gly Ala Glu Leu Arg Val Leu Val Asp Met Asp Gly Val Leu
      20              25              30

Ala Asp Phe Glu Ala Gly Leu Leu Arg Gly Phe Arg Arg Arg Phe Pro
      35              40              45

Glu Glu Pro His Val Pro Leu Glu Gln Arg Arg Gly Phe Leu Ala Arg
      50              55              60

Glu Gln Tyr Arg Ala Leu Arg Pro Asp Leu Ala Asp Lys Val Ala Ser
      65              70              75              80

Val Tyr Glu Ala Pro Gly Phe Phe Leu Asp Leu Glu Pro Ile Pro Gly
      85              90              95

Ala Leu Asp Ala Val Arg Glu Met Asn Asp Leu Pro Asp Thr Gln Val
      100              105              110

Phe Ile Cys Thr Ser Pro Leu Leu Lys Tyr His His Cys Val Gly Glu
      115              120              125

Lys Tyr Arg Trp Val Glu Gln His Leu Gly Pro Gln Phe Val Glu Arg
      130              135              140

Ile Ile Leu Thr Arg Asp Lys Thr Val Val Leu Gly Asp Leu Leu Ile
      145              150              155              160

Asp Asp Lys Asp Thr Val Arg Gly Gln Glu Glu Thr Pro Ser Trp Glu
      165              170              175

His Ile Leu Phe Thr Cys Cys His Asn Arg His Leu Val Leu Pro Pro
      180              185              190

Thr Arg Arg Arg Leu Leu Ser Trp Ser Asp Asn Trp Arg Glu Ile Leu
      195              200              205

Asp Ser Lys Arg Gly Ala Ala Gln Arg Glu
      210              215

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<210> 1125

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1125

1128

Met Arg Arg Arg Val Phe Phe Leu His Arg Cys Ser Ile Leu Val Phe
 1 5 10 15

Leu Phe Pro Cys Lys Cys Asn Gln Met Pro Phe Tyr Met Trp Thr Tyr
 20 25 30

Leu Tyr Trp Pro Asn Ile Phe Phe Leu Leu Ser Leu Phe Phe Phe Pro
 35 40 45

Phe Phe Leu Leu Pro Leu Phe Leu Tyr Ser Phe Leu Phe Leu Phe Phe
 50 55 60

Phe Phe Phe Ser Phe Phe Phe Gly Ser Cys Cys Tyr Pro Arg His Phe
 65 70 75 80

Thr Ser Pro Ser Leu Lys Gly
 85

<210> 1126

<211> 174

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1126

Pro Pro Leu Gly Lys Lys Xaa Glu Leu His Arg Gly Gly Gly Arg Ser
 1 5 10 15

Arg Leu Glu Glu Phe Gln Met Arg Ala Arg Pro Arg Pro Arg Pro Leu
 20 25 30

Trp Ala Thr Val Leu Ala Leu Gly Ala Leu Ala Gly Val Gly Val Gly
 35 40 45

Gly Pro Asn Ile Cys Thr Thr Arg Gly Val Ser Ser Cys Gln Gln Cys
 50 55 60

Leu Ala Val Ser Pro Met Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro
 65 70 75 80

1129

Leu Gly Ser Pro Arg Cys Asp Leu Lys Glu Asn Leu Leu Lys Asp Asn
 85 90 95

Cys Ala Pro Glu Ser Ile Glu Phe Pro Val Ser Glu Ala Arg Val Leu
 100 105 110

Glu Asp Arg Pro Leu Ser Asp Lys Gly Ser Gly Asp Ser Ser Gln Val
 115 120 125

Thr Gln Val Ser Pro Gln Arg Ile Ala Leu Arg Leu Arg Pro Asp Asp
 130 135 140

Ser Lys Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr Pro Val
 145 150 155 160

Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Xaa Gly
 165 170

<210> 1127

<211> 359

<212> PRT

<213> Homo sapiens

<400> 1127

Pro Gln Pro Phe Gln Gly Ser Gly Cys Val Ile Ala Ile Leu Gly Lys
 1 5 10 15

Arg Cys Ser Arg Pro Trp Arg Thr Trp Arg Gly Arg Thr Pro Ser Thr
 20 25 30

Arg His Ile Cys Ser Trp Cys Thr Met Val Ser Gly Thr Ser Ala Ala
 35 40 45

Val Glu Glu Tyr Ser Cys Glu Phe Gly Ser Ala Lys Tyr Tyr Ala Leu
 50 55 60

Cys Gly Phe Gly Gly Val Leu Ser Cys Gly Leu Thr His Thr Ala Val
 65 70 75 80

Val Pro Leu Asp Leu Val Lys Cys Arg Met Gln Val Asp Pro Gln Lys
 85 90 95

Tyr Lys Gly Ile Phe Asn Gly Phe Ser Val Thr Leu Lys Glu Asp Gly
 100 105 110

Val Arg Gly Leu Ala Lys Gly Trp Ala Pro Thr Phe Leu Gly Tyr Ser
 115 120 125

Met Gln Gly Leu Cys Lys Phe Gly Phe Tyr Glu Val Phe Lys Val Leu

1130

130	135	140
Tyr Ser Asn Met Leu Gly Glu Glu Asn Thr Tyr Leu Trp Arg Thr Ser		
145	150	155 160
Leu Tyr Leu Ala Ala Ser Ala Ser Ala Glu Phe Phe Ala Asp Ile Ala		
	165	170 175
Leu Ala Pro Met Glu Ala Ala Lys Val Arg Ile Gln Thr Gln Pro Gly		
	180	185 190
Tyr Ala Asn Thr Leu Arg Asp Ala Ala Pro Lys Met Tyr Lys Glu Glu		
	195	200 205
Gly Leu Lys Ala Phe Tyr Lys Gly Val Ala Pro Leu Trp Met Arg Gln		
	210	215 220
Ile Pro Tyr Thr Met Met Lys Phe Ala Cys Phe Glu Arg Thr Val Glu		
	225	230 235 240
Ala Leu Tyr Lys Phe Val Val Pro Lys Pro Arg Ser Glu Cys Ser Lys		
	245	250 255
Pro Glu Gln Leu Val Val Thr Phe Val Ala Gly Tyr Ile Ala Gly Val		
	260	265 270
Phe Cys Ala Ile Val Ser His Pro Ala Asp Ser Val Val Ser Val Leu		
	275	280 285
Asn Lys Glu Lys Gly Ser Ser Ala Ser Leu Val Leu Lys Arg Leu Gly		
	290	295 300
Phe Lys Gly Val Trp Lys Gly Leu Phe Ala Arg Ile Ile Met Ile Gly		
	305	310 315 320
Thr Leu Thr Ala Leu Gln Trp Phe Ile Tyr Asp Ser Val Lys Val Tyr		
	325	330 335
Phe Arg Leu Pro Arg Pro Pro Pro Pro Glu Met Pro Glu Ser Leu Lys		
	340	345 350
Lys Lys Leu Gly Leu Thr Gln		
	355	

<210> 1128

<211> 399

<212> PRT

<213> Homo sapiens

1131

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (349)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1128

Leu Glu Pro Pro Ala Glu Pro Leu Gln Tyr Leu Ala Cys Tyr Arg Phe
 1 5 10 15

His Cys Ser His Gln Leu Gly Asp Asn Met Trp Phe Leu Thr Thr Leu
 20 25 30

Leu Leu Trp Val Pro Val Asp Gly Gln Val Asp Thr Thr Lys Ala Val
 35 40 45

Ile Thr Leu Gln Pro Pro Trp Val Ser Val Phe Gln Glu Glu Thr Val
 50 55 60

Thr Leu His Cys Glu Val Leu His Leu Pro Gly Ser Ser Ser Thr Gln
 65 70 75 80

Trp Phe Leu Asn Gly Thr Ala Thr Gln Thr Ser Thr Pro Ser Tyr Arg
 85 90 95

Ile Thr Ser Ala Ser Val Asn Asp Ser Gly Glu Tyr Arg Cys Gln Arg
 100 105 110

Gly Leu Ser Gly Arg Ser Asp Pro Ile Gln Leu Glu Ile His Arg Gly
 115 120 125

Trp Leu Leu Leu Gln Val Ser Ser Arg Val Phe Thr Glu Gly Glu Pro
 130 135 140

Leu Ala Leu Arg Cys His Ala Trp Lys Asp Lys Leu Val Tyr Asn Val
 145 150 155 160

Leu Tyr Tyr Arg Asn Gly Lys Ala Phe Lys Phe Phe His Trp Asn Ser
 165 170 175

Asn Leu Thr Ile Leu Lys Thr Asn Ile Ser His Asn Gly Thr Tyr His
 180 185 190

Cys Ser Gly Met Gly Lys His Arg Tyr Thr Ser Ala Gly Ile Ser Xaa
 195 200 205

Thr Val Lys Glu Leu Phe Pro Ala Pro Val Leu Asn Ala Ser Val Thr

1132

210	215	220
Ser Pro Leu Leu Glu Gly Asn Leu Val Thr Leu Ser Cys Glu Thr Lys		
225	230	235 240
Leu Leu Leu Gln Arg Pro Gly Leu Gln Leu Tyr Phe Ser Phe Tyr Met		
	245	250 255
Gly Ser Lys Thr Leu Arg Gly Arg Asn Thr Ser Ser Glu Tyr Gln Ile		
	260	265 270
Leu Thr Ala Arg Arg Glu Asp Ser Gly Leu Tyr Trp Cys Glu Ala Ala		
	275	280 285
Thr Glu Asp Gly Asn Val Leu Lys Arg Ser Pro Glu Leu Glu Leu Gln		
	290	295 300
Val Leu Gly Leu Gln Leu Pro Thr Pro Val Trp Phe His Val Leu Phe		
305	310	315 320
Tyr Leu Ala Val Gly Ile Met Phe Leu Val Asn Thr Val Leu Trp Val		
	325	330 335
Thr Ile Arg Lys Glu Leu Lys Arg Lys Lys Lys Trp Xaa Leu Glu Ile		
	340	345 350
Ser Leu Asp Ser Gly His Glu Lys Lys Val Ile Ser Ser Leu Gln Glu		
	355	360 365
Asp Arg His Leu Glu Glu Glu Leu Lys Cys Gln Glu Gln Lys Glu Glu		
	370	375 380
Gln Leu Gln Glu Gly Val His Arg Lys Glu Pro Gln Gly Ala Thr		
385	390	395

<210> 1129

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

1133

<400> 1129

Glu Ile Leu Phe Ile Phe Xaa Xaa Phe Phe Lys Gly Leu Ser Asn Ser
 1 5 10 15

Ala Ala Ala Met Ala Pro Val Lys Lys Leu Val Val Lys Gly Gly Lys
 20 25 30

Lys Lys Lys Gln Val Leu Lys Phe Thr Leu Asp Cys Thr His Pro Val
 35 40 45

Glu Asp Gly Ile Met Asp Ala Ala Asn Phe Glu Gln Phe Leu Gln Glu
 50 55 60

Arg Ile Lys Val Asn Gly Lys Ala Gly Asn Leu Gly Gly Gly Val Val
 65 70 75 80

Thr Ile Glu Arg Ser Lys Ser Lys Ile Thr Val Thr Ser Glu Val Pro
 85 90 95

Phe Ser Lys Arg Tyr Leu Lys Tyr Leu Thr Lys Lys Tyr Leu Lys Lys
 100 105 110

Asn Asn Leu Arg Asp Trp Leu Arg Val Val Ala Asn Ser Lys Glu Ser
 115 120 125

Tyr Glu Leu Arg Tyr Phe Gln Ile Asn Gln Asp Glu Glu Glu Glu Glu
 130 135 140

Asp Glu Asp
 145

<210> 1130

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1130

Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln Thr
 1 5 10 15

Gln Gln Lys Arg Arg Gly Arg Ile Arg Gly Leu Ser Arg Pro Ala Pro
 20 25 30

Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Glu Met
 35 40 45

Glu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Leu
 50 55 60

1134

Pro Thr Arg Arg Gly Gln Arg Cys Thr Arg Arg Pro Ser Ser Ser Pro
 65 70 75 80

Ser Ser Ala Pro Ser His Tyr Ser Trp Phe Tyr
 85 90

<210> 1131

<211> 510

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (352)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1131

Thr Ser Glu Glu Ser Arg Pro Arg Leu Ser Gln Leu Ser Val Thr Asp
 1 5 10 15

Val Thr Thr Ser Ser Leu Arg Leu Asn Trp Glu Ala Pro Pro Gly Ala
 20 25 30

Phe Asp Ser Phe Leu Leu Arg Phe Gly Val Pro Ser Pro Ser Thr Leu
 35 40 45

Glu Pro His Pro Arg Pro Leu Leu Gln Arg Glu Leu Met Val Pro Gly
 50 55 60

Thr Arg His Ser Ala Val Leu Arg Asp Leu Arg Ser Gly Thr Leu Tyr
 65 70 75 80

Ser Leu Thr Leu Tyr Gly Leu Arg Gly Pro His Lys Ala Asp Ser Ile
 85 90 95

Gln Gly Thr Ala Arg Thr Leu Ser Pro Val Leu Glu Ser Pro Arg Asp
 100 105 110

Leu Gln Phe Ser Glu Ile Arg Glu Thr Ser Ala Lys Val Asn Trp Met
 115 120 125

Pro Pro Pro Ser Arg Ala Asp Ser Phe Lys Val Ser Tyr Gln Leu Ala
 130 135 140

1135

Asp	Gly	Gly	Glu	Pro	Gln	Ser	Val	Gln	Val	Asp	Gly	Gln	Ala	Arg	Thr	145	150	155	160
Gln	Lys	Leu	Gln	Gly	Leu	Ile	Pro	Gly	Ala	Arg	Tyr	Glu	Val	Thr	Val	165	170	175	
Val	Ser	Val	Arg	Gly	Phe	Glu	Glu	Ser	Glu	Pro	Leu	Thr	Gly	Phe	Leu	180	185	190	
Thr	Thr	Val	Pro	Asp	Gly	Pro	Thr	Gln	Leu	Arg	Ala	Leu	Asn	Leu	Thr	195	200	205	
Glu	Gly	Phe	Ala	Val	Leu	His	Trp	Lys	Pro	Pro	Gln	Asn	Pro	Val	Asp	210	215	220	
Thr	Tyr	Asp	Xaa	Gln	Val	Thr	Ala	Pro	Gly	Ala	Pro	Pro	Leu	Gln	Ala	225	230	235	240
Glu	Thr	Pro	Gly	Ser	Ala	Val	Asp	Tyr	Pro	Leu	His	Asp	Leu	Val	Leu	245	250	255	
His	Thr	Asn	Tyr	Thr	Ala	Thr	Val	Arg	Gly	Leu	Arg	Gly	Pro	Asn	Leu	260	265	270	
Thr	Ser	Pro	Ala	Ser	Ile	Thr	Phe	Thr	Thr	Gly	Leu	Glu	Ala	Pro	Arg	275	280	285	
Asp	Leu	Glu	Ala	Lys	Glu	Val	Thr	Pro	Arg	Thr	Ala	Leu	Leu	Thr	Trp	290	295	300	
Thr	Glu	Pro	Pro	Val	Arg	Pro	Ala	Gly	Tyr	Leu	Leu	Ser	Phe	His	Thr	305	310	315	320
Pro	Gly	Gly	Gln	Thr	Gln	Glu	Ile	Leu	Leu	Pro	Gly	Gly	Ile	Thr	Ser	325	330	335	
His	Gln	Leu	Leu	Gly	Leu	Phe	Pro	Ser	Thr	Ser	Tyr	Asn	Ala	Arg	Xaa	340	345	350	
Gln	Ala	Met	Trp	Gly	Gln	Ser	Leu	Leu	Pro	Pro	Val	Ser	Thr	Ser	Phe	355	360	365	
Thr	Thr	Gly	Gly	Leu	Arg	Ile	Pro	Phe	Pro	Arg	Asp	Cys	Gly	Glu	Glu	370	375	380	
Met	Gln	Asn	Gly	Ala	Gly	Ala	Ser	Arg	Thr	Ser	Thr	Ile	Phe	Leu	Asn	385	390	395	400
Gly	Asn	Arg	Glu	Arg	Pro	Leu	Asn	Val	Phe	Cys	Asp	Met	Glu	Thr	Asp	405	410	415	

1136

Gly Gly Gly Trp Leu Val Phe Gln Arg Arg Met Asp Gly Gln Thr Asp
420 425 430

Phe Trp Arg Asp Trp Glu Asp Tyr Ala His Gly Phe Gly Asn Ile Ser
435 440 445

Gly Glu Phe Trp Leu Gly Asn Glu Ala Leu His Ser Leu Thr Gln Ala
450 455 460

Gly Asp Tyr Ser Met Arg Val Asp Leu Arg Ala Gly Asp Glu Ala Val
465 470 475 480

Phe Ala Gln Tyr Asp Ser Phe His Val Asp Ser Ala Ala Glu Tyr Tyr
485 490 495

Arg Leu His Leu Glu Gly Tyr His Gly Thr Ala Gly Thr Pro
500 505 510

<210> 1132

<211> 430

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (408)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (410)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (414)

<223> Xaa equals any of the naturally occurring L-amino acids

1137

<220>

<221> SITE

<222> (420)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (428)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1132

Arg	Thr	Ala	Asp	Gln	Thr	Val	Thr	Ala	Ala	Leu	Thr	Lys	Arg	Ser	Trp
1				5					10					15	

Asn	Ser	Ser	Ser	Ser	Pro	Gln	Arg	Arg	Thr	Glu	Gln	Thr	Ala	Glu	Thr
			20					25					30		

Met	Glu	Ser	Pro	Ser	Ala	Pro	Pro	His	Arg	Trp	Cys	Ile	Pro	Trp	Gln
		35					40					45			

Arg	Leu	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe	Trp	Asn	Pro	Pro	Thr
	50					55					60				

Thr	Ala	Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe	Asn	Val	Ala	Glu	Gly
65					70					75					80

Lys	Glu	Val	Leu	Leu	Leu	Val	His	Asn	Leu	Pro	Gln	His	Leu	Phe	Gly
			85						90					95	

Tyr	Ser	Trp	Tyr	Lys	Gly	Glu	Arg	Val	Asp	Gly	Asn	Arg	Gln	Ile	Ile
			100					105					110		

Gly	Tyr	Val	Ile	Gly	Thr	Gln	Gln	Ala	Thr	Pro	Gly	Pro	Ala	Tyr	Ser
		115					120					125			

Gly	Arg	Glu	Ile	Ile	Tyr	Pro	Asn	Ala	Ser	Leu	Leu	Ile	Gln	Asn	Ile
	130					135					140				

Ile	Gln	Asn	Asp	Thr	Gly	Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp
145					150					155					160

Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val	Tyr	Pro	Glu	Leu
			165					170						175	

Pro	Lys	Pro	Ser	Ile	Xaa	Ser	Asn	Asn	Ser	Lys	Pro	Val	Glu	Asp	Lys
			180					185					190		

Asp	Ala	Val	Ala	Phe	Thr	Cys	Glu	Pro	Glu	Thr	Gln	Asp	Ala	Thr	Tyr
	195						200					205			

Leu	Trp	Trp	Val	Asn	Asn	Gln	Xaa	Leu	Pro	Val	Ser	Pro	Arg	Leu	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1138

210	215	220
Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn		
225	230	235 240
Asp Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg		
	245	250 255
Arg Ser Asp Ser Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro		
	260	265 270
Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn Leu Asn		
	275	280 285
Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Phe		
290	295	300
Val Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe Ile Pro Asn		
305	310	315 320
Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln Ala His Asn Ser		
	325	330 335
Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala		
	340	345 350
Glu Pro Pro Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu		
	355	360 365
Asp Glu Asp Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr		
370	375	380
Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg		
385	390	395 400
Leu His Leu Pro Met Thr Thr Xaa Pro Xaa Leu Tyr Ser Xaa Ala Gln		
	405	410 415
Gly Met Met Xaa Asp Pro Met Asn Val Glu Ser Xaa Thr Asn		
	420	425 430

<210> 1133

<211> 737

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

1139

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (308)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (534)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (535)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1133

Xaa	His	Ala	Ser	Ala	Ala	Xaa	Pro	Thr	Val	Thr	Ala	Ala	Leu	Thr	Arg
1				5					10					15	

Ala	Phe	Leu	Glu	Leu	Lys	Leu	Ser	Thr	Lys	Arg	Trp	Thr	Glu	Lys	Thr
			20					25					30		

Ala	Glu	Thr	Met	Gly	Pro	Pro	Ser	Ala	Pro	Pro	Cys	Arg	Leu	His	Val
		35					40					45			

Pro	Trp	Lys	Glu	Val	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe	Trp	Asn
	50					55						60			

Pro	Pro	Thr	Thr	Ala	Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe	Asn	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1140

65					70						75				80
Ala	Glu	Gly	Lys	Glu	Val	Leu	Leu	Leu	Ala	His	Asn	Leu	Pro	Gln	Asn
				85					90					95	
Arg	Ile	Gly	Tyr	Ser	Trp	Tyr	Lys	Gly	Glu	Arg	Val	Asp	Gly	Asn	Ser
			100					105					110		
Leu	Ile	Val	Gly	Tyr	Val	Ile	Gly	Thr	Gln	Gln	Ala	Thr	Pro	Gly	Pro
		115					120					125			
Ala	Tyr	Ser	Gly	Arg	Glu	Thr	Ile	Tyr	Pro	Asn	Xaa	Ser	Leu	Leu	Ile
	130					135					140				
Gln	Asn	Val	Thr	Gln	Asn	Asp	Thr	Gly	Phe	Tyr	Thr	Leu	Gln	Val	Ile
145					150					155					160
Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	His	Val	Tyr
			165						170					175	
Pro	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Xaa	Asn	Asn	Ser	Asn	Pro	Val
			180					185						190	
Glu	Xaa	Lys	Asp	Ala	Val	Ala	Phe	Thr	Cys	Glu	Pro	Glu	Val	Gln	Asn
		195					200					205			
Thr	Thr	Tyr	Leu	Trp	Trp	Val	Asn	Gly	Gln	Ser	Leu	Pro	Val	Ser	Pro
	210					215					220				
Arg	Leu	Gln	Leu	Ser	Asn	Gly	Asn	Met	Thr	Leu	Thr	Leu	Leu	Ser	Val
225					230					235					240
Lys	Arg	Asn	Asp	Ala	Gly	Ser	Tyr	Glu	Cys	Glu	Ile	Gln	Asn	Pro	Ala
				245					250					255	
Ser	Ala	Asn	Arg	Ser	Asp	Pro	Val	Thr	Leu	Asn	Val	Leu	Tyr	Gly	Pro
			260					265					270		
Asp	Gly	Pro	Thr	Ile	Ser	Pro	Ser	Lys	Ala	Asn	Tyr	Arg	Pro	Gly	Glu
		275					280					285			
Asn	Leu	Asn	Leu	Ser	Cys	His	Ala	Ala	Ser	Asn	Pro	Pro	Ala	Gln	Tyr
	290					295					300				
Ser	Trp	Phe	Xaa	Asn	Gly	Thr	Phe	Gln	Gln	Ser	Thr	Gln	Glu	Leu	Phe
305					310					315					320
Ile	Pro	Asn	Ile	Thr	Val	Asn	Asn	Ser	Gly	Ser	Tyr	Thr	Cys	Gln	Ala
				325					330					335	
His	Asn	Ser	Asp	Thr	Gly	Leu	Asn	Arg	Thr	Thr	Val	Thr	Thr	Ile	Thr

1141

340	345	350
Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn		
355	360	365
Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu Pro Glu Ile		
370	375	380
Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val		
385	390	395
Ser Pro Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu		
405	410	415
Ser Val Thr Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn		
420	425	430
Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn Val Leu Tyr		
435	440	445
Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro		
450	455	460
Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala		
465	470	475
Gln Tyr Ser Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu		
485	490	495
Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr Thr Cys		
500	505	510
Gln Ala Asn Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val Lys Thr		
515	520	525
Ile Thr Val Ser Ala Xaa Xaa Pro Lys Pro Ser Ile Ser Ser Asn Asn		
530	535	540
Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro		
545	550	555
Glu Ala Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu		
565	570	575
Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr		
580	585	590
Leu Phe Asn Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys Gly Ile		
595	600	605
Gln Asn Ser Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asp Val		

1142

610		615		620
Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr				
625		630		635
				640
Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro				
	645		650	655
Ser Pro Gln Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln His Thr				
	660		665	670
Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr				
	675		680	685
Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile Val				
	690		695	700
Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu Ser Ala				
705		710		715
				720
Gly Ala Thr Val Gly Ile Met Ile Gly Val Leu Val Gly Val Ala Leu				
	725		730	735

Ile

<210> 1134

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1134

Phe Gly Thr Xaa Arg Ser Val Val Leu Leu Leu Val Ala Val Arg Leu
1 5 10 15

His Thr Leu Leu Ser Cys Pro Leu Glu Gln Pro Ala Gly Thr Glu Trp
20 25 30

Ile Leu Glu Glu Gly Val Thr Thr Gly Pro Pro Arg Lys Pro Arg Ala
35 40 45

Asp Ile Tyr Asn Leu Arg Ser Pro Asp Glu Phe Ile Val Gly Gln Asn
50 55 60

1143

Gln Ala Leu Ile Glu Pro Gly
65 70

<210> 1135

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1135

Gly Leu Arg Arg Leu Asp Ser Ala Ser Gly Thr Val Tyr Thr Ala Met
1 5 10 15

Asp Val Ala Thr Gly Gln Glu Val Ala Ile Lys Gln Met Asn Leu Gln
20 25 30

Gln Gln Pro Lys Lys Glu Leu Ile Ile Asn Glu Ile Leu Val Met Arg
35 40 45

Glu Asn Lys Asn Pro Asn Ile Val Asn Tyr Leu Asp Ser Tyr Leu Val
50 55 60

Gly Asp Glu Leu Trp Val Val Met Glu Tyr Leu Ala Gly Gly Ser Leu
65 70 75 80

Thr Asp Val Val Thr Glu Thr Cys Met Asp Glu Gly Gln Ile Ala Ala
85 90 95

Val Cys Arg Glu Xaa Leu Gln Ala Leu Glu Phe Leu His Ser Asn Gln
100 105 110

Ile Thr Pro Glu Gln Ser Lys Arg Ser Thr Met Val Gly Thr Pro Tyr
115 120 125

Trp Met Ala Pro Glu Val Val Thr Arg Lys Ala Tyr Gly Pro Lys Val
130 135 140

Asp Ile Trp Ser Leu Gly Ile Met Ala Ile Glu Met Ile Glu Gly Glu
145 150 155 160

Pro Pro Tyr Leu Asn Glu Asn Pro Leu Arg Ala Leu Tyr Leu Ile Ala
165 170 175

Thr Asn Gly Thr Pro Glu Leu Gln Asn Pro Glu Lys Leu Ser Ala Ile
180 185 190